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# SAR Test Report

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Report No.: AGC12060251103FH01

**FCC ID** : 2BTLL-GNM01

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : Laptop Computer

**BRAND NAME** : GEEKOM

**MODEL NAME** : NM16DA, NX16D7, NM16D\*\*\*(\*Representing numbers 0-9, letters A-Z, a-z, "-" or spaces)

**APPLICANT** : Shenzhen Geekom Electronic Technology Co., Ltd

**DATE OF ISSUE** : Jan. 13, 2026

**STANDARD(S)** : IEEE Std. 1528:2013  
FCC 47 CFR Part 2§2.1093  
IEEE Std C95.1<sup>™</sup>-2019

**REPORT VERSION** : V1.0

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**Report Revise Record**

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0           | /           | Jan. 13, 2026 | Valid         | Initial Release |

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## Test Report

|                              |                                                                                                                                                                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant Name               | Shenzhen Geekom Electronic Technology Co., Ltd                                                                                                                                                                                                                 |
| Applicant Address            | B705 No. 1044, Cha Guang Road, Shu Guang Community Xi Li Street, Nan Shan District, Shen Zhen, China                                                                                                                                                           |
| Manufacturer Name            | Shenzhen Geekom Electronic Technology Co., Ltd                                                                                                                                                                                                                 |
| Manufacturer Address         | B705 No. 1044, Cha Guang Road, Shu Guang Community Xi Li Street, Nan Shan District, Shen Zhen, China                                                                                                                                                           |
| Factory Name                 | N/A                                                                                                                                                                                                                                                            |
| Factory Address              | N/A                                                                                                                                                                                                                                                            |
| Product Designation          | Laptop Computer                                                                                                                                                                                                                                                |
| Brand Name                   | GEEKOM                                                                                                                                                                                                                                                         |
| Test Model                   | NM16DA                                                                                                                                                                                                                                                         |
| Series Model(s)              | NX16D7, NM16D***(*Representing numbers 0-9, letters A-Z, a-z, "-" or spaces)                                                                                                                                                                                   |
| Difference Description       | (* represents numbers 0-9, letters A-Z, a-z, "-" or spaces, which are used to distinguish sales areas, different customer groups, and different market positioning, without affecting the safety and electromagnetic compatibility performance of the product) |
| EUT Voltage                  | DC 11.61V by battery                                                                                                                                                                                                                                           |
| Applicable Standard          | IEEE Std. 1528:2013<br>FCC 47 CFR Part 2§2.1093<br>IEEE Std C95.1™-2019                                                                                                                                                                                        |
| Date of receipt of test item | Nov. 14, 2025                                                                                                                                                                                                                                                  |
| Test Date                    | Dec. 03, 2025 to Dec. 08, 2025                                                                                                                                                                                                                                 |
| Report Template              | AGCRT-US-5G/SAR (2021-04-20)                                                                                                                                                                                                                                   |

Note: The results of testing in this report apply to the product/system which was tested only.



Prepared By

Jack Gui (Project Engineer)

Jan. 13, 2026



Reviewed By

Bibo Zhang (Reviewer)

Jan. 13, 2026



Approved By

Angela Li (Authorized Officer)

Jan. 13, 2026

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## 1. SUMMARY OF MAXIMUM SAR VALUE

The maximum results of Specific Absorption Rate (SAR) found during testing for EUT are as follows:

| Frequency Band                              | Highest Reported 1g-SAR(W/kg)  | SAR Test Limit<br>(W/kg) |
|---------------------------------------------|--------------------------------|--------------------------|
|                                             | Body-worn(with 0mm separation) |                          |
| 2.4 GHz WIFI- 802.11b-Chain A               | 0.022                          | 1.6                      |
| 2.4 GHz WIFI- 802.11b-Chain B               | 0.032                          |                          |
| 2.4 GHz WIFI- 802.11ax40-Chain A            | 0.015                          |                          |
| 2.4 GHz WIFI- 802.11ax40-Chain B            | 0.023                          |                          |
| 2.4 GHz WIFI- 802.11ax40-Chain A+B          | 0.038                          |                          |
| 5.2 GHz(U-NII-1) WIFI- 802.11a-Chain A      | 0.214                          |                          |
| 5.2 GHz(U-NII-1) WIFI - 802.11a-Chain B     | 0.260                          |                          |
| 5.2 GHz(U-NII-1) WIFI- 802.11ax80-Chain A   | 0.180                          |                          |
| 5.2 GHz(U-NII-1) WIFI- 802.11ax80-Chain B   | 0.150                          |                          |
| 5.2 GHz(U-NII-1) WIFI- 802.11ax80-Chain A+B | 0.330                          |                          |
| 5.3GHz (U-NII-2A) WIFI-802.11a-Chain A      | 0.194                          |                          |
| 5.3GHz (U-NII-2A) WIFI-802.11a-Chain B      | 0.209                          |                          |
| 5.3GHz (U-NII-2A) WIFI-802.11ax40-Chain A   | 0.154                          |                          |
| 5.3GHz (U-NII-2A) WIFI-802.11ax40-Chain B   | 0.216                          |                          |
| 5.3GHz (U-NII-2A) WIFI-802.11ax40-Chain A+B | 0.370                          |                          |
| 5.6GHz (U-NII-2C) WIFI-802.11a-Chain A      | 0.275                          |                          |
| 5.6GHz (U-NII-2C) WIFI-802.11a-Chain B      | 0.182                          |                          |
| 5.6GHz (U-NII-2C) WIFI-802.11ax40-Chain A   | 0.249                          |                          |
| 5.6GHz (U-NII-2C) WIFI-802.11ax40-Chain B   | 0.150                          |                          |
| 5.6GHz (U-NII-2C) WIFI-802.11ax40-Chain A+B | 0.399                          |                          |
| 5.8GHz (U-NII-3) WIFI-802.11a-Chain A       | 0.249                          |                          |
| 5.8GHz (U-NII-3) WIFI-802.11a-Chain B       | 0.198                          |                          |
| 5.8GHz (U-NII-3) WIFI-802.11ac40-Chain A    | 0.186                          |                          |
| 5.8GHz (U-NII-3) WIFI-802.11ac40-Chain B    | 0.182                          |                          |
| 5.8GHz (U-NII-3) WIFI-802.11ac40-Chain A+B  | 0.368                          |                          |
| SAR Test Result                             | PASS                           |                          |

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/kg) specified in IEEE Std. 1528:2013; FCC 47CFR § 2.1093; IEEE Std C95.1™-2019 and the following specific FCC Test Procedures:

- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04
- KDB 248227 D01 802 11 Wi-Fi SAR v02r02
- KDB 616217 D04 SAR for laptop and tablets v01r02

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## 2. GENERAL INFORMATION

### 2.1. EUT Description

| General Information     |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Designation     | Laptop Computer                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Model              | NM16DA                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Hardware Version        | NX16A_RL01_MB_V12                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Software Version        | Window 11                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Device Category         | Portable                                                                                                                                                                                                                                                                                                                                                                                                                          |
| RF Exposure Environment | Uncontrolled                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Antenna Type            | PIFA Antenna                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Bluetooth               |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Operation Frequency     | 2402~2480MHz                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Antenna Gain            | 1.75dBi                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Bluetooth Version       | V5.3                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Type of modulation      | <b>BR/EDR:</b> GFSK, $\pi/4$ -DQPSK, 8-DPSK; <b>BLE:</b> GFSK                                                                                                                                                                                                                                                                                                                                                                     |
| Average Power           | <b>BR/EDR:</b> 1.030dBm ; <b>BLE:</b> 0.593dBm                                                                                                                                                                                                                                                                                                                                                                                    |
| 2.4GHz WIFI             |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| WIFI Specification      | <input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n(20) <input checked="" type="checkbox"/> 802.11n(40)<br><input checked="" type="checkbox"/> 802.11ax(20) <input checked="" type="checkbox"/> 802.11ax(40)                                                                                                                                      |
| Operation Frequency     | 2412~2462MHz                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Average Power           | Chain A: 13.55dBm, Chain B: 13.15dBm, MIMO: 1.78dBm                                                                                                                                                                                                                                                                                                                                                                               |
| Antenna Gain            | Chain A: 1.91dBi, Chain B: 1.75dBi                                                                                                                                                                                                                                                                                                                                                                                                |
| 5GHz WIFI               |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| WIFI Specification      | <input checked="" type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11n20 <input checked="" type="checkbox"/> 802.11ac20 <input checked="" type="checkbox"/> 802.11n40 <input checked="" type="checkbox"/> 802.11ac40 <input checked="" type="checkbox"/> 802.11ac80 <input checked="" type="checkbox"/> 802.11ax20 <input checked="" type="checkbox"/> 802.11ax40 <input checked="" type="checkbox"/> 802.11ax80 |
| Operation Frequency     | U-NII-1: 5180MHz~5240MHz; U-NII-2A: 5260MHz~5320MHz;<br>U-NII-2C: 5500MHz~5700MHzMHz;U-NII-3: 5745MHz~5825MHz                                                                                                                                                                                                                                                                                                                     |
| Type of modulation      | 802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM<br>802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM<br>802.11ax: (1024-QAM,256-QAM,64-QAM,16-QAM, QPSK, BPSK) OFDMA                                                                                                                                                                                                                                                               |
| Average Power           | Chain A:<br>U-NII 1:13.40dBm; U-NII 2A: 13.15dBm; U-NII 2C: 13.75dBm; U-NII-3: 13.19dBm<br>Chain B:<br>U-NII 1:13.35dBm; U-NII 2A: 13.10dBm; U-NII 2C: 13.14dBm; U-NII-3:12.70dBm<br>MIMO:<br>U-NII 1:15.81dBm; U-NII 2A: 15.43dBm; U-NII 2C: 15.02dBm; U-NII-3:15.06dBm                                                                                                                                                          |
| Antenna Gain            | Chain A: 2.90dBi, Chain B: 2.49dBi                                                                                                                                                                                                                                                                                                                                                                                                |
| Battery                 | Brand name: GEEKOM<br>Model No. : 564791-3S2P<br>Voltage and Capacitance: DC 11.61V & 8612mAh                                                                                                                                                                                                                                                                                                                                     |

Note: 1.The sample used for testing is end product.

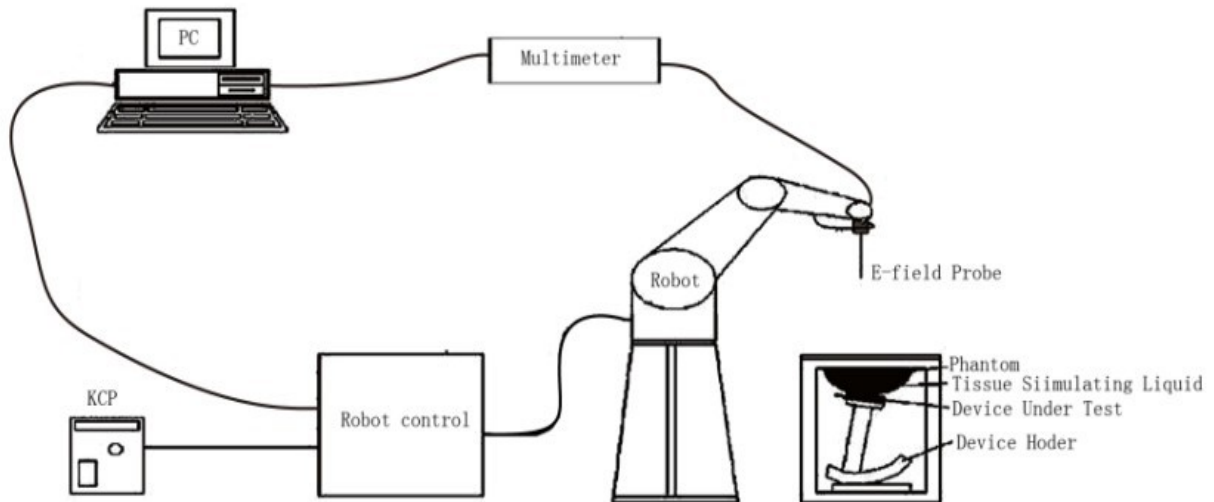
2. The test sample has no any deviation to the test method of standard mentioned in page 1.

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### 3. SAR MEASUREMENT SYSTEM

#### 3.1. The SATIMO system used for performing compliance tests consists of following items



The COMOSAR system for performing compliance tests consists of the following items:

- The PC. It controls most of the bench devices and stores measurement data. A computer running WinXP and the Opensar software.
- The E-Field probe. The probe is a 3-axis system made of 3 distinct dipoles. Each dipole returns a voltage in function of the ambient electric field.
- The Keithley multimeter measures each probe dipole voltages.
- The SAM phantom simulates a human head. The measurement of the electric field is made inside the phantom.
- The liquids simulate the dielectric properties of the human head tissues.
- The network emulator controls the mobile phone under test.
- The validation dipoles are used to measure a reference SAR. They are used to periodically check the bench to make sure that there is no drift of the system characteristics over time.
- The phantom, the device holder and other accessories according to the targeted measurement.

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### 3.2. COMOSAR E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SATIMO. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. SATIMO conducts the probe calibration in compliance with international and national standards (e.g. IEEE1528 etc.) Under ISO17025. The calibration data are in Appendix D.

#### Isotropic E-Field Probe Specification

|                    |                                                                                                                                                                                                           |                                                                                    |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Model              | SSE2                                                                                                                                                                                                      |                                                                                    |
| Manufacture        | MVG                                                                                                                                                                                                       |                                                                                    |
| Identification No. | 2023-EPGO-414                                                                                                                                                                                             |                                                                                    |
| Frequency          | 0.15GHz-7.5GHz<br>Linearity:±0.10dB(0.15GHz-7.5GHz)                                                                                                                                                       |  |
| Dynamic Range      | 0.01W/kg-100W/kg<br>Linearity:±0.10dB                                                                                                                                                                     |                                                                                    |
| Dimensions         | Overall length:330mm<br>Length of individual dipoles:2mm<br>Maximum external diameter:8mm<br>Probe Tip external diameter:2.5mm<br>Distance between dipoles/ probe extremity:1mm                           |                                                                                    |
| Application        | High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precisin of better 30%. |                                                                                    |

### 3.3. Robot

The COMOSAR system uses the KUKA robot from SATIMO SA (France). For the 6-axis controller COMOSAR system, the KUKA robot controller version from SATIMO is used.

The XL robot series have many features that are important for our application:

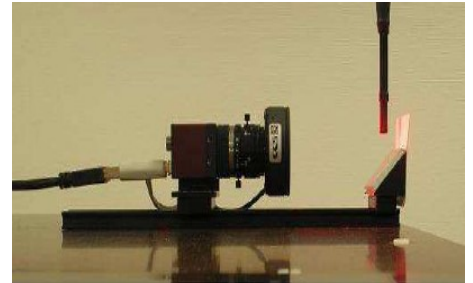
- ☐ High precision (repeatability 0.02 mm)
- ☐ High reliability (industrial design)
- ☐ Jerk-free straight movements
- ☐ Low ELF interference (the closed metallic construction shields against motor control fields)
- ☐ 6-axis controller



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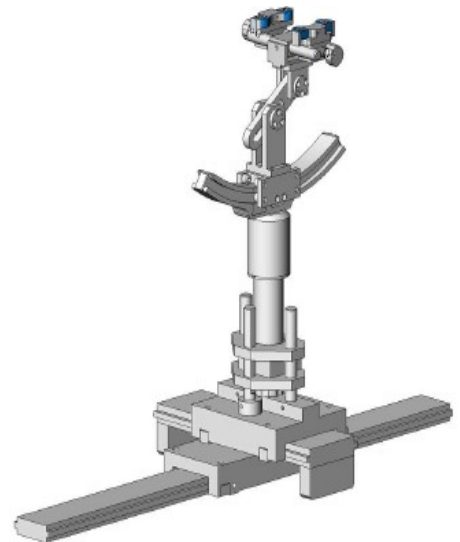
### 3.4. Video Positioning System

The video positioning system is used in OpenSAR to check the probe. Which is composed of a camera, LED, mirror and mechanical parts. The camera is piloted by the main computer with firewire link. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip. The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



### 3.5. Device Holder

The COMOSAR device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR). Thus the device needs no repositioning when changing the angles. The COMOSAR device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity  $\epsilon_r = 3$  and loss tangent  $\delta = 0.02$ . The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



### 3.6. SAM Twin Phantom

The ELLI is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas:

- ☐ Left head
- ☐ Right head
- ☐ Flat phantom



The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

### ELLI39 Phantom

The Flat phantom is a fiberglass shell phantom with 2mm+/- 0.2 mm shell thickness. It has only one measurement area for Flat phantom



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Tel: +86-755 2523 4088 E-mail: [agc@agccert.com](mailto:agc@agccert.com) Web: <http://www.agccert.com/>

## 4. SAR MEASUREMENT PROCEDURE

### 4.1. Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and occupational/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element(dv) of given mass density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left( \frac{dW}{dm} \right) = \frac{d}{dt} \left( \frac{dW}{\rho dV} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR can be obtained using either of the following equations:

$$SAR = \frac{\sigma E^2}{\rho}$$

$$SAR = c_h \left. \frac{dT}{dt} \right|_{t=0}$$

Where

|                |                                                                                      |
|----------------|--------------------------------------------------------------------------------------|
| SAR            | is the specific absorption rate in watts per kilogram;                               |
| E              | is the r.m.s. value of the electric field strength in the tissue in volts per meter; |
| σ              | is the conductivity of the tissue in siemens per metre;                              |
| ρ              | is the density of the tissue in kilograms per cubic metre;                           |
| c <sub>h</sub> | is the heat capacity of the tissue in joules per kilogram and Kelvin;                |

$\left. \frac{dT}{dt} \right|_{t=0}$  is the initial time derivative of temperature in the tissue in kelvins per second

## 4.2. SAR Measurement Procedure

### Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface is 2.7mm This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties,

### Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in SATIMO software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in db) is specified in the standards for compliance testing. For example, a 2db range is required in IEEE Standard 1528 standards, whereby 3db is a requirement when compliance is assessed in accordance with the ARIB standard (Japan) If one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximum are detected, the number of Zoom Scan has to be increased accordingly.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100MHz to 6GHz

|                                                                                                        | $\leq 3 \text{ GHz}$                                                                                                                                                                                                                                                   | $> 3 \text{ GHz}$                                                                  |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface | $5 \pm 1 \text{ mm}$                                                                                                                                                                                                                                                   | $\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$                         |
| Maximum probe angle from probe axis to phantom surface normal at the measurement location              | $30^\circ \pm 1^\circ$                                                                                                                                                                                                                                                 | $20^\circ \pm 1^\circ$                                                             |
| Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$                 | $\leq 2 \text{ GHz}: \leq 15 \text{ mm}$<br>$2 - 3 \text{ GHz}: \leq 12 \text{ mm}$                                                                                                                                                                                    | $3 - 4 \text{ GHz}: \leq 12 \text{ mm}$<br>$4 - 6 \text{ GHz}: \leq 10 \text{ mm}$ |
|                                                                                                        | When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device. |                                                                                    |

### Step 3: Zoom Scan

Zoom Scan are used to assess the peak spatial SAR value within a cubic average volume containing 1g and 10g of simulated tissue. The Zoom Scan measures points(refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1g and 10g and displays these values next to the job's label.

#### Zoom Scan Parameters extracted from KDB865664 d01 SAR Measurement 100MHz to 6GHz

|                                                                                                                                                                                                                                                                                                                                               |                                    |                                                                                      |                                                                                     |                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Maximum zoom scan spatial resolution: $\Delta x_{Zoom}$ , $\Delta y_{Zoom}$                                                                                                                                                                                                                                                                   |                                    |                                                                                      | $\leq 2 \text{ GHz}: \leq 8 \text{ mm}$<br>$2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$ | $3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$<br>$4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$                                          |
| Maximum zoom scan spatial resolution, normal to phantom surface                                                                                                                                                                                                                                                                               | uniform grid: $\Delta z_{Zoom}(n)$ |                                                                                      | $\leq 5 \text{ mm}$                                                                 | $3 - 4 \text{ GHz}: \leq 4 \text{ mm}$<br>$4 - 5 \text{ GHz}: \leq 3 \text{ mm}$<br>$5 - 6 \text{ GHz}: \leq 2 \text{ mm}$    |
|                                                                                                                                                                                                                                                                                                                                               | graded grid                        | $\Delta z_{Zoom}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface | $\leq 4 \text{ mm}$                                                                 | $3 - 4 \text{ GHz}: \leq 3 \text{ mm}$<br>$4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$<br>$5 - 6 \text{ GHz}: \leq 2 \text{ mm}$  |
|                                                                                                                                                                                                                                                                                                                                               |                                    | $\Delta z_{Zoom}(n>1)$ : between subsequent points                                   | $\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$                                               |                                                                                                                               |
| Minimum zoom scan volume                                                                                                                                                                                                                                                                                                                      | x, y, z                            |                                                                                      | $\geq 30 \text{ mm}$                                                                | $3 - 4 \text{ GHz}: \geq 28 \text{ mm}$<br>$4 - 5 \text{ GHz}: \geq 25 \text{ mm}$<br>$5 - 6 \text{ GHz}: \geq 22 \text{ mm}$ |
| Note: $\delta$ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.                                                                                                                                                                                             |                                    |                                                                                      |                                                                                     |                                                                                                                               |
| * When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}$ , $\leq 8 \text{ mm}$ , $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz. |                                    |                                                                                      |                                                                                     |                                                                                                                               |

#### Step 4: Power Drift Measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the same settings. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

### 4.3. RF Exposure Conditions

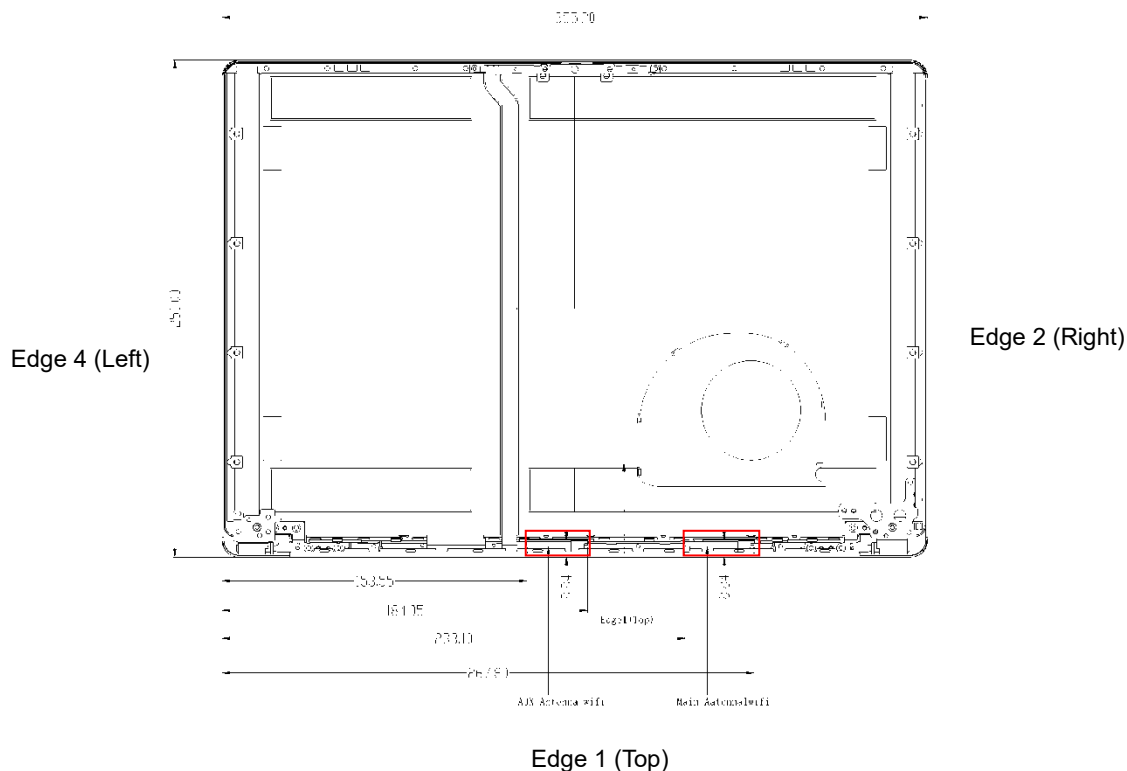
### Test Configuration and setting:

The device is a Laptop Computer which supports BT, 2.4GHz & 5G WIFI.

For SAR testing, the EUT is configured with the WLAN continuous TX tool through qualcomm software.

### Antenna Location: (the back view)

Edge 3 (Bottom)



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### SAR Test Exclusion Consideration for Adjacent Edges

Per KDB 447498 D01 cl. 4.3.1:

a) For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR.

b) For 100 MHz to 6 GHz and test separation distances  $> 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

1)  $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)]\}$  mW, for 100 MHz to 1500 MHz

2)  $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\}$  mW, for  $> 1500$  MHz and  $\leq 6$  GHz

| 1-g SAR test exclusion thresholds for Chain A |                                   |              |                  |                   |                   |
|-----------------------------------------------|-----------------------------------|--------------|------------------|-------------------|-------------------|
| Test position                                 |                                   | Edge 1 (5mm) | Edge 2 (87.40mm) | Edge 3 (241.16mm) | Edge 4 (201.65mm) |
| Test Mode                                     |                                   |              |                  |                   |                   |
| 2.4G WIFI                                     | SAR test exclusion thresholds(mW) | 9.66         | 470.58           | 2008.18           | 1613.08           |
|                                               | SAR Max. Avg. Burst Power(mW)     | 22.65        | 22.65            | 22.65             | 22.65             |
|                                               | SAR required (Yes/No)             | YES          | NO               | NO                | NO                |
| 5.2G WIFI                                     | SAR test exclusion thresholds(mW) | 6.55         | 439.53           | 1977.13           | 1582.03           |
|                                               | SAR Max. Avg. Burst Power(mW)     | 21.88        | 21.88            | 21.88             | 21.88             |
|                                               | SAR required (Yes/No)             | YES          | NO               | NO                | NO                |
| 5.3G WIFI                                     | SAR test exclusion thresholds(mW) | 6.54         | 439.40           | 1977.00           | 1581.90           |
|                                               | SAR Max. Avg. Burst Power(mW)     | 20.65        | 20.65            | 20.65             | 20.65             |
|                                               | SAR required (Yes/No)             | YES          | NO               | NO                | NO                |
| 5.6G WIFI                                     | SAR test exclusion thresholds(mW) | 6.28         | 436.83           | 1974.43           | 1579.33           |
|                                               | SAR Max. Avg. Burst Power(mW)     | 23.71        | 23.71            | 23.71             | 23.71             |
|                                               | SAR required (Yes/No)             | YES          | NO               | NO                | NO                |
| 5.8G WIFI                                     | SAR test exclusion thresholds(mW) | 6.26         | 436.58           | 1974.18           | 1579.08           |
|                                               | SAR Max. Avg. Burst Power(mW)     | 20.84        | 20.84            | 20.84             | 20.84             |
|                                               | SAR required (Yes/No)             | YES          | NO               | NO                | NO                |

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Tel: +86-755 2523 4088 E-mail: [agc@agccert.com](mailto:agc@agccert.com) Web: <http://www.agccert.com/>

| 1-g SAR test exclusion thresholds for Chain B |                                   |              |                   |                   |                   |
|-----------------------------------------------|-----------------------------------|--------------|-------------------|-------------------|-------------------|
| Test position                                 |                                   | Edge 1 (5mm) | Edge 2 (271.15mm) | Edge 3 (241.16mm) | Edge 4 (153.55mm) |
| Test Mode                                     |                                   |              |                   |                   |                   |
| BT:                                           | SAR test exclusion thresholds(mW) | 9.53         | 2306.75           | 2006.85           | 1130.75           |
|                                               | SAR Max. Avg. Burst Power(mW)     | 1.27         | 1.27              | 1.27              | 1.27              |
|                                               | SAR required (Yes/No)             | NO           | NO                | NO                | NO                |
| 2.4G WIFI                                     | SAR test exclusion thresholds(mW) | 9.66         | 2308.08           | 2008.18           | 1132.08           |
|                                               | SAR Max. Avg. Burst Power(mW)     | 20.65        | 20.65             | 20.65             | 20.65             |
|                                               | SAR required (Yes/No)             | YES          | NO                | NO                | NO                |
| 5.2G WIFI                                     | SAR test exclusion thresholds(mW) | 6.59         | 2277.41           | 1977.51           | 1101.41           |
|                                               | SAR Max. Avg. Burst Power(mW)     | 21.63        | 21.63             | 21.63             | 21.63             |
|                                               | SAR required (Yes/No)             | YES          | NO                | NO                | NO                |
| 5.3G WIFI                                     | SAR test exclusion thresholds(mW) | 6.54         | 2276.90           | 1977.00           | 1100.90           |
|                                               | SAR Max. Avg. Burst Power(mW)     | 20.42        | 20.42             | 20.42             | 20.42             |
|                                               | SAR required (Yes/No)             | YES          | NO                | NO                | NO                |
| 5.6G WIFI                                     | SAR test exclusion thresholds(mW) | 6.40         | 2275.46           | 1975.56           | 1099.46           |
|                                               | SAR Max. Avg. Burst Power(mW)     | 20.61        | 20.61             | 20.61             | 20.61             |
|                                               | SAR required (Yes/No)             | YES          | NO                | NO                | NO                |
| 5.8G WIFI                                     | SAR test exclusion thresholds(mW) | 6.24         | 2273.86           | 1973.96           | 1097.86           |
|                                               | SAR Max. Avg. Burst Power(mW)     | 18.62        | 18.62             | 18.62             | 18.62             |
|                                               | SAR required (Yes/No)             | YES          | NO                | NO                | NO                |

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## 5. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in 5.2

### 5.1. The composition of the tissue simulating liquid

| Frequency<br>(MHz) | Ingredient<br>(% Weight) | Water | NaCl | Polysorbate<br>20 | DGBE | 1,2-<br>Propanediol | Triton<br>X-100 | Diethylen<br>glycol<br>monohex<br>ylether |
|--------------------|--------------------------|-------|------|-------------------|------|---------------------|-----------------|-------------------------------------------|
| 2450 Head          |                          | 71.88 | 0.16 | 0.0               | 7.99 | 0.0                 | 19.97           | 0.0                                       |
| 5000 Head          |                          | 65.52 | 0.0  | 0.0               | 0.0  | 0.0                 | 17.24           | 17.24                                     |

### 5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE 1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in IEEE 1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in IEEE 1528.

| Target Frequency<br>(MHz) | head         |                | body         |                |
|---------------------------|--------------|----------------|--------------|----------------|
|                           | $\epsilon_r$ | $\sigma$ (S/m) | $\epsilon_r$ | $\sigma$ (S/m) |
| 300                       | 45.3         | 0.87           | 45.3         | 0.87           |
| 450                       | 43.5         | 0.87           | 43.5         | 0.87           |
| 835                       | 41.5         | 0.90           | 41.5         | 0.90           |
| 900                       | 41.5         | 0.97           | 41.5         | 0.97           |
| 1450                      | 40.5         | 1.20           | 40.5         | 1.20           |
| 1800 – 2000               | 40.0         | 1.40           | 40.0         | 1.40           |
| <b>2450</b>               | <b>39.2</b>  | <b>1.80</b>    | <b>52.7</b>  | <b>1.95</b>    |
| 3000                      | 38.5         | 2.40           | 38.5         | 2.40           |
| <b>5200</b>               | <b>36.0</b>  | <b>4.66</b>    | <b>49.0</b>  | <b>5.30</b>    |
| <b>5300</b>               | <b>35.9</b>  | <b>4.76</b>    | <b>48.9</b>  | <b>5.42</b>    |
| <b>5600</b>               | <b>35.5</b>  | <b>5.07</b>    | <b>48.5</b>  | <b>5.77</b>    |
| <b>5800</b>               | <b>35.3</b>  | <b>5.27</b>    | <b>48.2</b>  | <b>6.00</b>    |

( $\epsilon_r$  = relative permittivity,  $\sigma$  = conductivity and  $\rho = 1000 \text{ kg/m}^3$ )

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### 5.3. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using SATIMO Dielectric Probe Kit and R&S Network Analyzer ZVL6.

| Tissue Stimulant Measurement for 2450MHz |              |                                     |                                   |                         |                             |                        |                  |
|------------------------------------------|--------------|-------------------------------------|-----------------------------------|-------------------------|-----------------------------|------------------------|------------------|
| Head                                     | Fr.<br>(MHz) | Dielectric Parameters ( $\pm 5\%$ ) |                                   | Ambient<br>Temp<br>[°C] | Relative<br>Humidity<br>(%) | Tissue<br>Temp<br>[°C] | Test time        |
|                                          |              | $\epsilon_r$ 39.2<br>(37.24-41.16)  | $\delta$ [s/m]1.80<br>(1.71-1.89) |                         |                             |                        |                  |
|                                          | 2422         | 39.67                               | 1.76                              | 20.8                    | 60.2                        | 20.4                   | Dec. 03,<br>2025 |
|                                          | 2437         | 39.10                               | 1.79                              |                         |                             |                        |                  |
|                                          | 2450         | 38.68                               | 1.81                              |                         |                             |                        |                  |

| Tissue Stimulant Measurement for 5200MHz |              |                                      |                                      |                         |                             |                        |                  |
|------------------------------------------|--------------|--------------------------------------|--------------------------------------|-------------------------|-----------------------------|------------------------|------------------|
| Head                                     | Fr.<br>(MHz) | Dielectric Parameters ( $\pm 5\%$ )  |                                      | Ambient<br>Temp<br>[°C] | Relative<br>Humidity<br>(%) | Tissue<br>Temp<br>[°C] | Test time        |
|                                          |              | $\epsilon_r$ 36.0<br>(34.105-37.695) | $\delta$ [s/m] 4.66<br>(4.427-4.893) |                         |                             |                        |                  |
|                                          | 5200         | 35.60                                | 4.55                                 | 20.9                    | 56.4                        | 20.7                   | Dec. 04,<br>2025 |
|                                          | 5210         | 34.33                                | 4.60                                 |                         |                             |                        |                  |

| Tissue Stimulant Measurement for 5300MHz |              |                                      |                                     |                         |                             |                        |                  |
|------------------------------------------|--------------|--------------------------------------|-------------------------------------|-------------------------|-----------------------------|------------------------|------------------|
| Head                                     | Fr.<br>(MHz) | Dielectric Parameters ( $\pm 5\%$ )  |                                     | Ambient<br>Temp<br>[°C] | Relative<br>Humidity<br>(%) | Tissue<br>Temp<br>[°C] | Test time        |
|                                          |              | $\epsilon_r$ 35.9<br>(34.105-37.695) | $\delta$ [s/m]4.76<br>(4.522-4.998) |                         |                             |                        |                  |
|                                          | 5260         | 37.24                                | 4.62                                | 21.8                    | 54.7                        | 21.7                   | Dec. 05,<br>2025 |
|                                          | 5270         | 37.13                                | 4.66                                |                         |                             |                        |                  |
|                                          | 5300         | 36.59                                | 4.71                                |                         |                             |                        |                  |

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| Tissue Stimulant Measurement for 5600MHz |              |                                      |                                        |                         |                             |                        |                  |
|------------------------------------------|--------------|--------------------------------------|----------------------------------------|-------------------------|-----------------------------|------------------------|------------------|
| Head                                     | Fr.<br>(MHz) | Dielectric Parameters ( $\pm 5\%$ )  |                                        | Ambient<br>Temp<br>[°C] | Relative<br>Humidity<br>(%) | Tissue<br>Temp<br>[°C] | Test time        |
|                                          |              | $\epsilon_r 35.5$<br>(33.725-37.275) | $\delta [s/m] 5.07$<br>(4.8165-5.3235) |                         |                             |                        |                  |
|                                          | 5550         | 37.19                                | 5.12                                   | 21.2                    | 61.7                        | 20.8                   | Dec. 06,<br>2025 |
|                                          | 5580         | 37.01                                | 5.15                                   |                         |                             |                        |                  |
|                                          | 5670         | 36.91                                | 5.16                                   |                         |                             |                        |                  |
|                                          | 5600         | 36.82                                | 5.18                                   |                         |                             |                        |                  |
|                                          | 5700         | 35.36                                | 5.21                                   |                         |                             |                        |                  |

| Tissue Stimulant Measurement for 5800MHz |              |                                      |                                        |                         |                             |                        |                  |
|------------------------------------------|--------------|--------------------------------------|----------------------------------------|-------------------------|-----------------------------|------------------------|------------------|
| Head                                     | Fr.<br>(MHz) | Dielectric Parameters ( $\pm 5\%$ )  |                                        | Ambient<br>Temp<br>[°C] | Relative<br>Humidity<br>(%) | Tissue<br>Temp<br>[°C] | Test time        |
|                                          |              | $\epsilon_r 35.3$<br>(33.535-37.065) | $\delta [s/m] 5.27$<br>(5.0065-5.5335) |                         |                             |                        |                  |
|                                          | 5775         | 36.79                                | 5.30                                   | 21.5                    | 59.2                        | 21.4                   | Dec. 08,<br>2025 |
|                                          | 5785         | 36.42                                | 5.33                                   |                         |                             |                        |                  |
|                                          | 5800         | 35.03                                | 5.36                                   |                         |                             |                        |                  |

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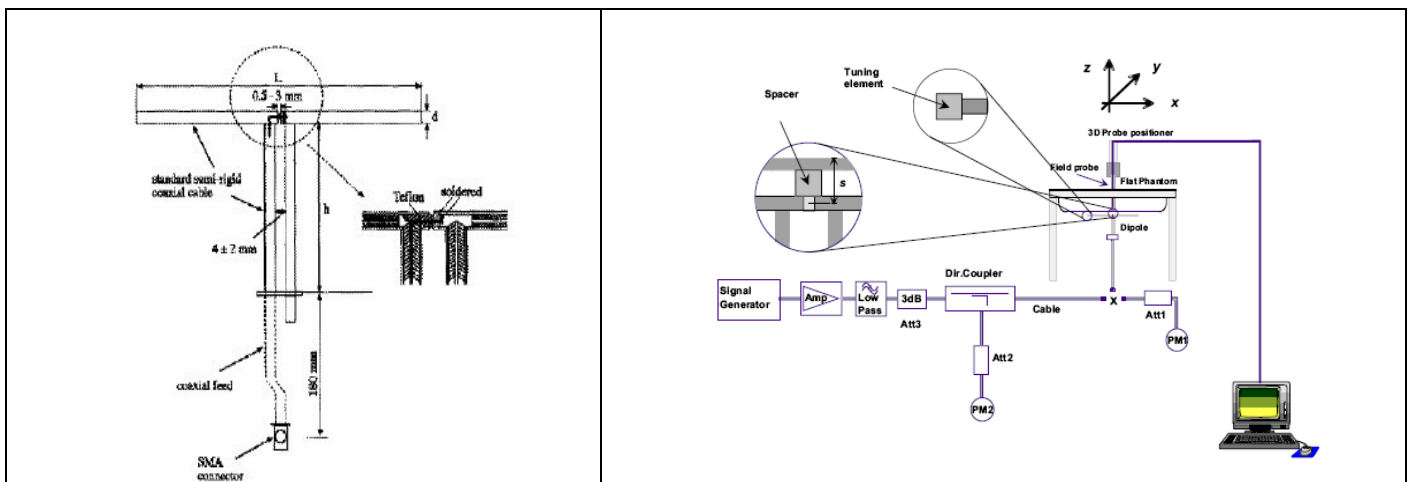
## 6. SAR SYSTEM CHECK PROCEDURE

### 6.1. SAR System Check Procedures

SAR system check is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are remeasured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

Each SATIMO system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the SATIMO software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

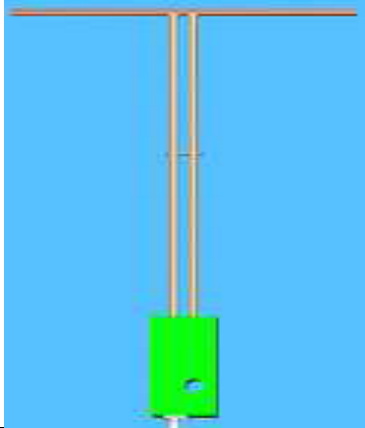
The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.



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## 6.2. SAR System Check

### 6.2.1. Dipoles

|                                                                                    |                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <p>The dipoles are based on the IEEE-1528 standard, and are complied with mechanical and electrical specifications in line with the requirements of IEEE. the table below provides details for the mechanical and electrical Specifications for the dipoles.</p> |
|  | <p>The dipole is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of IEEE. The table below provides details for the mechanical and electrical specifications for the wave guide.</p> |

| Frequency | L (mm) | h (mm) | d (mm) |
|-----------|--------|--------|--------|
| 2450MHz   | 51.5   | 30.4   | 3.6    |
| 5000MHz   | 20.6   | 40.3   | 3.6    |

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### 6.2.2. System Check Result

| System Performance Check at 2450MHz & 5200-5800MHz for Head   |                    |       |                                 |             |                        |       |               |
|---------------------------------------------------------------|--------------------|-------|---------------------------------|-------------|------------------------|-------|---------------|
| Validation Kit: SN 2915 DIP 2G450-393 & SN 1722 DIP 5G000-671 |                    |       |                                 |             |                        |       |               |
| Frequency [MHz]                                               | Target Value(W/kg) |       | Reference Result ( $\pm 10\%$ ) |             | Normalized to 1W(W/kg) |       | Test time     |
|                                                               | 1g                 | 10g   | 1g                              | 10g         | 1g                     | 10g   |               |
| 2450                                                          | 52.85              | 24.53 | 47.57-58.14                     | 22.08-26.98 | 53.38                  | 24.48 | Dec. 03, 2025 |
| 5200                                                          | 77.74              | 22.60 | 69.97-85.51                     | 20.34-24.86 | 75.10                  | 20.80 | Dec. 04, 2025 |
| 5300                                                          | 77.74              | 22.60 | 69.97-85.51                     | 20.34-24.86 | 73.50                  | 22.10 | Dec. 05, 2025 |
| 5600                                                          | 80.69              | 23.28 | 72.62-88.76                     | 20.95-25.61 | 72.90                  | 25.30 | Dec. 06, 2025 |
| 5800                                                          | 75.01              | 21.84 | 67.51-82.51                     | 19.66-24.02 | 74.00                  | 23.70 | Dec. 08, 2025 |

Note:

(1) We use a CW signal of 15dBm (2450MHz), 10dBm (5200-5800MHz) for system check, and then all SAR values are normalized to 1W forward power. The result must be within  $\pm 10\%$  of target value.

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## 7. EUT TEST POSITION

This EUT was tested in **Body back, Edge1(Top)**.

### 7.1. Body Worn Position

- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to **0mm**.

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## 8. SAR EXPOSURE LIMITS

### Limits for General Population/Uncontrolled Exposure (W/kg)

| Type Exposure                                        | Uncontrolled Environment Limit (W/kg) |
|------------------------------------------------------|---------------------------------------|
| Spatial Peak SAR (1 g cube tissue for brain or body) | 1.60                                  |
| Spatial Average SAR (Whole body)                     | 0.08                                  |
| Spatial Peak SAR (Limbs)                             | 4.0                                   |

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## 9. TEST FACILITY

|                                          |                                                                                                                                          |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Site</b>                         | Attestation of Global Compliance (Shenzhen) Co., Ltd                                                                                     |
| <b>Location</b>                          | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |
| <b>Designation Number</b>                | CN1259                                                                                                                                   |
| <b>FCC Test Firm Registration Number</b> | 975832                                                                                                                                   |
| <b>A2LA Cert. No.</b>                    | 5054.02                                                                                                                                  |
| <b>Description</b>                       | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA                                                                |

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## 10. TEST EQUIPMENT LIST

| No.         | Equipment description                             | Manufacturer/ Model  | Identification No.       | Software version | Current calibration date       | Next calibration date          |
|-------------|---------------------------------------------------|----------------------|--------------------------|------------------|--------------------------------|--------------------------------|
| AGC-HE-A103 | SAR Probe                                         | MVG                  | 2023-EPGO-414            | N/A              | 2025-05-06                     | 2026-05-05                     |
| AGC-HE-A071 | Phantom                                           | SATIMO               | SN_2316_ELLI39           | N/A              | Validated.<br>No cal required. | Validated.<br>No cal required. |
| AGC-HE-A073 | Multimeter                                        | Keithley 2000        | 4114939                  | N/A              | 2025-05-16                     | 2026-05-15                     |
| AGC-HE-S003 | SAR Software                                      | MVG-OpenSAR          | N/A                      | V5.3.15.8        | N/A                            | N/A                            |
| AGC-HE-A061 | Dipole                                            | SATIMO SID2450       | SN 2915 DIP<br>2G450-393 | N/A              | 2025-05-16                     | 2028-05-15                     |
| AGC-HE-A101 | Dipole                                            | SID5000              | SN 1722 DIP<br>5G000-671 | N/A              | 2025-05-16                     | 2028-05-15                     |
| AGC-HE-E021 | Signal Generator                                  | Agilent-E4438C       | US41461365               | V5.03            | 2025-05-21                     | 2026-05-20                     |
| AGC-EM-E061 | EXA Signal Analyzer                               | Agilent / N9010A     | MY53470504               | N/A              | 2025-05-08                     | 2026-05-07                     |
| AGC-HE-E004 | Network Analyzer                                  | Rhode & Schwarz ZVL6 | 101443                   | 3.2              | 2025-07-18                     | 2026-07-17                     |
| AGC-ER-A001 | Attenuator                                        | SMA-JK               | N/A                      | N/A              | 2025-09-05                     | 2027-09-04                     |
| AGC-EM-E019 | Amplifier                                         | AS0104-55_55         | 1004793                  | N/A              | N/A                            | N/A                            |
| AGC-EM-E040 | Directional Couple                                | Werlatone/ C5571-10  | SN99463                  | N/A              | 2024-02-01                     | 2026-01-31                     |
| AGC-EM-E041 | Directional Couple                                | Werlatone/ C6026-10  | SN99482                  | N/A              | 2024-02-01                     | 2026-01-31                     |
| AGC-BQ-E016 | Power Sensor                                      | NRP-Z21              | 104604                   | N/A              | 2025-05-16                     | 2026-05-15                     |
| AGC-HE-E023 | Power Sensor                                      | NRP-Z23              | 100323                   | N/A              | 2025-01-14                     | 2026.01-13                     |
| AGC-HE-S004 | Power Viewer                                      | R&S                  | V2.3.1.0                 |                  | N/A                            | N/A                            |
| AGC-HE-A001 | Calibration standard parts for network sub - port | R&S/ ZV-Z132         | 100707                   | V2.3.1.0         | 2025-10-30                     | 2026-10-29                     |
| AGC-HE-A002 | Thermometer                                       | DigiMate/TP677       | 3811930452               | N/A              | 2025-05-24                     | 2027-05-23                     |

Note: Per IEC/IEEE 62209-1528 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss is within 20% of calibrated measurement;
4. Impedance is within 5Ω of calibrated measurement.

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## 11. MEASUREMENT UNCERTAINTY

| SATIMO Uncertainty- 2023-EPGO-414<br>Measurement uncertainty for DUT averaged over 1 gram / 10 gram. |       |              |                |       |         |          |                |                 |    |
|------------------------------------------------------------------------------------------------------|-------|--------------|----------------|-------|---------|----------|----------------|-----------------|----|
| Uncertainty Component                                                                                | Sec.  | Tol<br>(+-%) | Prob.<br>Dist. | Div.  | Ci (1g) | Ci (10g) | 1g Ui<br>(+-%) | 10g Ui<br>(+-%) | vi |
| <b>Measurement System</b>                                                                            |       |              |                |       |         |          |                |                 |    |
| Probe calibration                                                                                    | E.2.1 | 7.000        | N              | 1     | 1       | 1        | 7.000          | 7.000           | ∞  |
| Axial Isotropy                                                                                       | E.2.2 | 0.105        | R              | 1.732 | 0.707   | 0.707    | 0.043          | 0.043           | ∞  |
| Hemispherical Isotropy                                                                               | E.2.2 | 0.105        | R              | 1.732 | 0.707   | 0.707    | 0.043          | 0.043           | ∞  |
| Boundary effect                                                                                      | E.2.3 | 1.000        | R              | 1.732 | 1       | 1        | 0.577          | 0.577           | ∞  |
| Linearity                                                                                            | E.2.4 | 1.105        | R              | 1.732 | 1       | 1        | 0.638          | 0.638           | ∞  |
| System detection limits                                                                              | E.2.4 | 1.000        | R              | 1.732 | 1       | 1        | 0.577          | 0.577           | ∞  |
| Modulation response                                                                                  | E.2.5 | 3.000        | R              | 1.732 | 1       | 1        | 1.732          | 1.732           | ∞  |
| Readout Electronics                                                                                  | E.2.6 | 0.021        | N              | 1     | 1       | 1        | 0.021          | 0.021           | ∞  |
| Response Time                                                                                        | E.2.7 | 0.000        | R              | 1.732 | 1       | 1        | 0.000          | 0.000           | ∞  |
| Integration Time                                                                                     | E.2.8 | 1.400        | R              | 1.732 | 1       | 1        | 0.808          | 0.808           | ∞  |
| RF ambient conditions-Noise                                                                          | E.6.1 | 3.000        | R              | 1.732 | 1       | 1        | 1.732          | 1.732           | ∞  |
| RF ambient conditions-reflections                                                                    | E.6.1 | 3.000        | R              | 1.732 | 1       | 1        | 1.732          | 1.732           | ∞  |
| Probe positioner mechanical tolerance                                                                | E.6.2 | 1.400        | R              | 1.732 | 1       | 1        | 0.808          | 0.808           | ∞  |
| Probe positioning with respect to phantom shell                                                      | E.6.3 | 1.400        | R              | 1.732 | 1       | 1        | 0.808          | 0.808           | ∞  |
| Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation                    | E.5   | 2.300        | R              | 1.732 | 1       | 1        | 1.328          | 1.328           | ∞  |
| <b>Test sample Related</b>                                                                           |       |              |                |       |         |          |                |                 |    |
| Test sample positioning                                                                              | E.4.2 | 2.6          | N              | 1     | 1       | 1        | 2.60           | 2.60            | ∞  |
| Device holder uncertainty                                                                            | E.4.1 | 3            | N              | 1     | 1       | 1        | 3.00           | 3.00            | ∞  |
| Output power variation—SAR drift measurement                                                         | E.2.9 | 5            | R              | 1.732 | 1       | 1        | 2.89           | 2.89            | ∞  |
| SAR scaling                                                                                          | E.6.5 | 5            | R              | 1.732 | 1       | 1        | 2.89           | 2.89            | ∞  |
| <b>Phantom and tissue parameters</b>                                                                 |       |              |                |       |         |          |                |                 |    |
| Phantom shell uncertainty—shape, thickness, and permittivity                                         | E.3.1 | 4            | R              | 1.732 | 1       | 1        | 2.309          | 2.309           | ∞  |
| Uncertainty in SAR correction for deviations in permittivity and conductivity                        | E.3.2 | 1.9          | N              | 1     | 1       | 0.84     | 1.900          | 1.596           | ∞  |
| Liquid conductivity measurement                                                                      | E.3.3 | 4            | N              | 1     | 0.78    | 0.71     | 3.120          | 2.840           | M  |
| Liquid permittivity measurement                                                                      | E.3.3 | 5            | N              | 1     | 0.23    | 0.26     | 1.150          | 1.300           | M  |
| Liquid conductivity—temperature uncertainty                                                          | E.3.4 | 2.5          | R              | 1.732 | 0.78    | 0.71     | 1.126          | 1.025           | ∞  |
| Liquid permittivity—temperature uncertainty                                                          | E.3.4 | 2.5          | R              | 1.732 | 0.23    | 0.26     | 0.332          | 0.375           | ∞  |
| Combined Standard Uncertainty                                                                        |       |              | RSS            |       |         |          | 10.533         | 10.348          |    |
| Expanded Uncertainty (95% Confidence interval)                                                       |       |              | K=2            |       |         |          | 21.065         | 20.695          |    |

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| SATIMO Uncertainty- 2023-EPGO-414                                                 |         |                |                |       |         |          |                |                 |    |
|-----------------------------------------------------------------------------------|---------|----------------|----------------|-------|---------|----------|----------------|-----------------|----|
| System Validation uncertainty for DUT averaged over 1 gram / 10 gram.             |         |                |                |       |         |          |                |                 |    |
| Uncertainty Component                                                             | Sec.    | Tol<br>(+ - %) | Prob.<br>Dist. | Div.  | Ci (1g) | Ci (10g) | 1g Ui<br>(+-%) | 10g Ui<br>(+-%) | vi |
| <b>Measurement System</b>                                                         |         |                |                |       |         |          |                |                 |    |
| Probe calibration                                                                 | E.2.1   | 7.000          | N              | 1     | 1       | 1        | 7.000          | 7.000           | ∞  |
| Axial Isotropy                                                                    | E.2.2   | 0.105          | R              | 1.732 | 1.000   | 1.000    | 0.061          | 0.061           | ∞  |
| Hemispherical Isotropy                                                            | E.2.2   | 0.105          | R              | 1.732 | 0.000   | 0.000    | 0.000          | 0.000           | ∞  |
| Boundary effect                                                                   | E.2.3   | 1.000          | R              | 1.732 | 1.000   | 1.000    | 0.577          | 0.577           | ∞  |
| Linearity                                                                         | E.2.4   | 1.105          | R              | 1.732 | 1.000   | 1.000    | 0.638          | 0.638           | ∞  |
| System detection limits                                                           | E.2.4   | 1.000          | R              | 1.732 | 1.000   | 1.000    | 0.577          | 0.577           | ∞  |
| Modulation response                                                               | E.2.5   | 3.000          | R              | 1.732 | 0.000   | 0.000    | 0.000          | 0.000           | ∞  |
| Readout Electronics                                                               | E.2.6   | 0.021          | N              | 1.000 | 1.000   | 1.000    | 0.021          | 0.021           | ∞  |
| Response Time                                                                     | E.2.7   | 0.000          | R              | 1.732 | 0.000   | 0.000    | 0.000          | 0.000           | ∞  |
| Integration Time                                                                  | E.2.8   | 1.400          | R              | 1.732 | 0.000   | 0.000    | 0.000          | 0.000           | ∞  |
| RF ambient conditions-Noise                                                       | E.6.1   | 3.000          | R              | 1.732 | 1.000   | 1.000    | 1.732          | 1.732           | ∞  |
| RF ambient conditions-reflections                                                 | E.6.1   | 3.000          | R              | 1.732 | 1.000   | 1.000    | 1.732          | 1.732           | ∞  |
| Probe positioner mechanical tolerance                                             | E.6.2   | 1.400          | R              | 1.732 | 1.000   | 1.000    | 0.808          | 0.808           | ∞  |
| Probe positioning with respect to phantom shell                                   | E.6.3   | 1.400          | R              | 1.732 | 1.000   | 1.000    | 0.808          | 0.808           | ∞  |
| Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation | E.5     | 2.300          | R              | 1.732 | 1.000   | 1.000    | 1.328          | 1.328           | ∞  |
| <b>System validation source</b>                                                   |         |                |                |       |         |          |                |                 |    |
| Deviation of experimental dipole from numerical dipole                            | E.6.4   | 5              | N              | 1     | 1       | 1        | 5              | 5               | ∞  |
| Input power and SAR drift measurement                                             | 8,6.6.4 | 5              | R              | 1.732 | 1       | 1        | 2.887          | 2.887           | ∞  |
| Dipole axis to liquid distance                                                    | 8,E.6.6 | 2              | R              | 1.732 | 1       | 1        | 1.155          | 1.155           | ∞  |
| <b>Phantom and set-up</b>                                                         |         |                |                |       |         |          |                |                 |    |
| Phantom shell uncertainty—shape, thickness, and permittivity                      | E.3.1   | 4              | R              | 1.732 | 1       | 1        | 2.309          | 2.309           | ∞  |
| Uncertainty in SAR correction for deviations in permittivity and conductivity     | E.3.2   | 1.9            | N              | 1     | 1       | 0.84     | 1.9            | 1.596           | ∞  |
| Liquid conductivity (temperature uncertainty)                                     | E.3.3   | 4              | N              | 1     | 0.78    | 0.71     | 3.12           | 2.84            | ∞  |
| Liquid conductivity (measured)                                                    | E.3.3   | 5              | N              | 1     | 0.23    | 0.26     | 1.15           | 1.3             | M  |
| Liquid permittivity (temperature uncertainty)                                     | E.3.4   | 2.5            | R              | 1.732 | 0.78    | 0.71     | 1.126          | 1.025           | ∞  |
| Liquid permittivity (measured)                                                    | E.3.4   | 2.5            | R              | 1.732 | 0.23    | 0.26     | 0.332          | 0.375           | M  |
| Combined Standard Uncertainty                                                     |         |                | RSS            |       |         |          | 10.466         | 10.279          |    |
| Expanded Uncertainty (95% Confidence interval)                                    |         |                | K=2            |       |         |          | 20.931         | 20.559          |    |

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| SATIMO Uncertainty- 2023-EPGO-414                                                 |         |              |                |            |         |          |                |                 |    |
|-----------------------------------------------------------------------------------|---------|--------------|----------------|------------|---------|----------|----------------|-----------------|----|
| System Check uncertainty for DUT averaged over 1 gram / 10 gram.                  |         |              |                |            |         |          |                |                 |    |
| Uncertainty Component                                                             | Sec.    | Tol<br>(+-%) | Prob.<br>Dist. | Div.       | Ci (1g) | Ci (10g) | 1g Ui<br>(+-%) | 10g Ui<br>(+-%) | vi |
| <b>Measurement System</b>                                                         |         |              |                |            |         |          |                |                 |    |
| Probe calibration drift                                                           | E.2.1.3 | 0.500        | N              | 1          | 1       | 1        | 0.5            | 0.5             | ∞  |
| Axial Isotropy                                                                    | E.2.2   | 0.105        | R              | 1.732      | 0       | 0        | 0              | 0               | ∞  |
| Hemispherical Isotropy                                                            | E.2.2   | 0.105        | R              | 1.732      | 0       | 0        | 0              | 0               | ∞  |
| Boundary effect                                                                   | E.2.3   | 1.000        | R              | 1.732      | 0       | 0        | 0              | 0               | ∞  |
| Linearity                                                                         | E.2.4   | 1.105        | R              | 1.732      | 0       | 0        | 0              | 0               | ∞  |
| System detection limits                                                           | E.2.4   | 1            | R              | 1.732      | 0       | 0        | 0              | 0               | ∞  |
| Modulation response                                                               | E.2.5   | 3            | R              | 1.732      | 0       | 0        | 0              | 0               | ∞  |
| Readout Electronics                                                               | E.2.6   | 0.021        | N              | 1          | 0       | 0        | 0              | 0               | ∞  |
| Response Time                                                                     | E.2.7   | 0            | R              | 1.732      | 0       | 0        | 0              | 0               | ∞  |
| Integration Time                                                                  | E.2.8   | 1.4          | R              | 1.732      | 0       | 0        | 0              | 0               | ∞  |
| RF ambient conditions-Noise                                                       | E.6.1   | 3            | R              | 1.732      | 0       | 0        | 0              | 0               | ∞  |
| RF ambient conditions-reflections                                                 | E.6.1   | 3            | R              | 1.732      | 0       | 0        | 0              | 0               | ∞  |
| Probe positioner mechanical tolerance                                             | E.6.2   | 1.4          | R              | $\sqrt{3}$ | 1       | 1        | 0.81           | 0.81            | ∞  |
| Probe positioning with respect to phantom shell                                   | E.6.3   | 1.4          | R              | $\sqrt{3}$ | 1       | 1        | 0.81           | 0.81            | ∞  |
| Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation | E.5     | 2.3          | R              | $\sqrt{3}$ | 0       | 0        | 0              | 0.00            | ∞  |
| <b>System check source (dipole)</b>                                               |         |              |                |            |         |          |                |                 |    |
| Deviation of experimental dipoles                                                 | E.6.4   | 2            | N              | 1          | 1       | 1        | 2              | 2               | ∞  |
| Input power and SAR drift measurement                                             | 8,6.6.4 | 5            | R              | $\sqrt{3}$ | 1       | 1        | 2.89           | 2.89            | ∞  |
| Dipole axis to liquid distance                                                    | 8,E.6.6 | 2            | R              | $\sqrt{3}$ | 1       | 1        | 1.15           | 1.15            | ∞  |
| <b>Phantom and tissue parameters</b>                                              |         |              |                |            |         |          |                |                 |    |
| Phantom shell uncertainty—shape, thickness, and permittivity                      | E.3.1   | 4            | R              | $\sqrt{3}$ | 1       | 1        | 2.31           | 2.31            | ∞  |
| Uncertainty in SAR correction for deviations in permittivity and conductivity     | E.3.2   | 1.9          | N              | 1.000      | 1       | 0.84     | 1.90           | 1.60            | ∞  |
| Liquid conductivity measurement                                                   | E.3.3   | 4            | N              | 1.000      | 0.78    | 0.71     | 3.12           | 2.84            | ∞  |
| Liquid permittivity measurement                                                   | E.3.3   | 5            | N              | 1.000      | 0.23    | 0.26     | 1.15           | 1.30            | M  |
| Liquid conductivity—temperature uncertainty                                       | E.3.4   | 2.5          | R              | $\sqrt{3}$ | 0.78    | 0.71     | 1.13           | 1.02            | ∞  |
| Liquid permittivity—temperature uncertainty                                       | E.3.4   | 2.5          | R              | $\sqrt{3}$ | 0.23    | 0.26     | 0.33           | 0.38            | M  |
| Combined Standard Uncertainty                                                     |         |              | RSS            |            |         |          | 5.562          | 5.203           |    |
| Expanded Uncertainty (95% Confidence interval)                                    |         |              | K=2            |            |         |          | 11.124         | 10.406          |    |

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## 12. CONDUCTED POWER MEASUREMENT

### 2.4GHz WIFI

| Mode         | Data Rate (Mbps) | Channel | Frequency (MHz) | Average Power-Chain A (dBm) | Average Power-Chain B (dBm) | Average Power-Chain A+B (dBm) |
|--------------|------------------|---------|-----------------|-----------------------------|-----------------------------|-------------------------------|
| 802.11b      | 1                | 1       | 2412            | 13.55                       | 13.15                       | N/A                           |
|              |                  | 7       | 2442            | 13.25                       | 12.78                       | N/A                           |
|              |                  | 13      | 2472            | 12.73                       | 12.66                       | N/A                           |
| 802.11g      | 6                | 1       | 2412            | 11.20                       | 10.48                       | N/A                           |
|              |                  | 7       | 2442            | 10.38                       | 9.78                        | N/A                           |
|              |                  | 13      | 2472            | 10.06                       | 9.69                        | N/A                           |
| 802.11n(20)  | 6.5              | 1       | 2412            | 11.09                       | 10.42                       | 13.78                         |
|              |                  | 7       | 2442            | 10.54                       | 9.63                        | 13.12                         |
|              |                  | 13      | 2472            | 10.06                       | 9.57                        | 12.83                         |
| 802.11n(40)  | 13.5             | 3       | 2422            | 10.95                       | 10.01                       | 13.52                         |
|              |                  | 7       | 2442            | 10.79                       | 9.80                        | 13.33                         |
|              |                  | 11      | 2462            | 10.31                       | 9.86                        | 13.10                         |
| 802.11ax(20) | 8.6              | 1       | 2412            | 10.87                       | 10.15                       | 13.54                         |
|              |                  | 7       | 2442            | 10.38                       | 9.60                        | 13.02                         |
|              |                  | 13      | 2472            | 9.90                        | 9.51                        | 12.72                         |
| 802.11ax(40) | 17.2             | 3       | 2422            | 10.76                       | 9.94                        | 13.38                         |
|              |                  | 7       | 2442            | 10.75                       | 9.90                        | 13.36                         |
|              |                  | 11      | 2462            | 10.37                       | 9.79                        | 13.10                         |

### Bluetooth\_BR/EDR

| TEST CONDITIONS | Test Frequency (MHz) | Average Power (dBm) |
|-----------------|----------------------|---------------------|
| GFSK            | 2402                 | 0.025               |
|                 | 2441                 | -0.009              |
|                 | 2480                 | -0.754              |
| Π/4-DQPSK       | 2402                 | 0.088               |
|                 | 2441                 | 0.135               |
|                 | 2480                 | <b>1.030</b>        |
| 8DPSK           | 2402                 | 0.109               |
|                 | 2441                 | 0.544               |
|                 | 2480                 | 0.419               |

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#### Bluetooth\_BLE

| TEST CONDITIONS    | Average Power (dBm) |
|--------------------|---------------------|
| LE1M_TX_2402_1Mbps | 0.593               |
| LE1M_TX_2440_1Mbps | 0.140               |
| LE1M_TX_2480_1Mbps | -0.160              |
| LE2M_TX_2402_2Mbps | 0.224               |
| LE2M_TX_2440_2Mbps | -0.009              |
| LE2M_TX_2480_2Mbps | -0.645              |

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### 5GHz WIFI

| Mode            | channel | Frequency | Average Power(dBm)- Chain A |             |             |             |             |             |             |             |
|-----------------|---------|-----------|-----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                 |         |           | Data Rate(bps)              |             |             |             |             |             |             |             |
|                 |         |           | 6M                          | 9M          | 12M         | 18M         | 24M         | 36M         | 48M         | 54M         |
| 802.11a         | 36      | 5180      | 13.18                       | 13.06       | 12.89       | 12.78       | 12.68       | 12.52       | 12.40       | 12.27       |
|                 | 40      | 5200      | 13.22                       | 13.05       | 12.85       | 12.85       | 12.65       | 12.55       | 12.41       | 12.21       |
|                 | 48      | 5240      | <b>13.40</b>                | 13.23       | 13.04       | 13.02       | 12.87       | 12.82       | 12.68       | 12.60       |
|                 | 52      | 5260      | <b>13.15</b>                | 13.12       | 13.08       | 13.07       | 12.93       | 12.86       | 12.70       | 12.65       |
|                 | 60      | 5300      | 12.81                       | 12.76       | 12.59       | 12.52       | 12.38       | 12.28       | 12.27       | 12.17       |
|                 | 64      | 5320      | 12.46                       | 12.42       | 12.23       | 12.08       | 11.99       | 11.94       | 11.94       | 11.75       |
|                 | 100     | 5500      | 10.89                       | 10.76       | 10.70       | 10.62       | 10.52       | 10.47       | 10.32       | 10.14       |
|                 | 116     | 5580      | 11.36                       | 11.32       | 11.18       | 11.03       | 10.99       | 10.89       | 10.79       | 10.59       |
|                 | 140     | 5700      | <b>13.75</b>                | 13.64       | 13.60       | 13.47       | 13.40       | 13.32       | 13.23       | 13.21       |
|                 | 149     | 5745      | <b>13.19</b>                | 13.03       | 12.87       | 12.67       | 12.63       | 12.61       | 12.58       | 12.50       |
|                 | 157     | 5785      | 12.87                       | 12.77       | 12.72       | 12.55       | 12.55       | 12.40       | 12.22       | 12.12       |
|                 | 165     | 5825      | 12.20                       | 12.03       | 12.01       | 11.84       | 11.78       | 11.75       | 11.68       | 11.67       |
|                 |         |           | <b>MCS0</b>                 | <b>MCS1</b> | <b>MCS2</b> | <b>MCS3</b> | <b>MCS4</b> | <b>MCS5</b> | <b>MCS6</b> | <b>MCS7</b> |
| 802.11n<br>(20) | 36      | 5180      | 12.24                       | 12.20       | 12.08       | 11.94       | 11.85       | 11.85       | 11.77       | 11.71       |
|                 | 40      | 5200      | 12.25                       | 12.12       | 11.94       | 11.93       | 11.77       | 11.71       | 11.70       | 11.70       |
|                 | 48      | 5240      | 12.42                       | 12.23       | 12.11       | 11.92       | 11.82       | 11.63       | 11.51       | 11.35       |
|                 | 52      | 5260      | 12.27                       | 12.26       | 12.12       | 11.94       | 11.89       | 11.75       | 11.57       | 11.54       |
|                 | 60      | 5300      | 12.00                       | 11.92       | 11.84       | 11.71       | 11.67       | 11.49       | 11.39       | 11.38       |
|                 | 64      | 5320      | 11.63                       | 11.60       | 11.57       | 11.39       | 11.36       | 11.28       | 11.16       | 11.02       |
|                 | 100     | 5500      | 10.23                       | 10.19       | 10.01       | 9.96        | 9.91        | 9.81        | 9.80        | 9.61        |
|                 | 116     | 5580      | 10.59                       | 10.41       | 10.33       | 10.18       | 9.98        | 9.90        | 9.82        | 9.71        |
|                 | 140     | 5700      | 12.95                       | 12.81       | 12.68       | 12.65       | 12.61       | 12.56       | 12.48       | 12.43       |
|                 | 149     | 5745      | 12.17                       | 12.05       | 11.85       | 11.77       | 11.59       | 11.55       | 11.40       | 11.38       |
|                 | 157     | 5785      | 11.82                       | 11.72       | 11.61       | 11.55       | 11.47       | 11.34       | 11.17       | 11.05       |
|                 | 165     | 5825      | 11.13                       | 11.12       | 10.98       | 10.98       | 10.94       | 10.84       | 10.76       | 10.59       |
|                 |         |           | <b>MCS0</b>                 | <b>MCS1</b> | <b>MCS2</b> | <b>MCS3</b> | <b>MCS4</b> | <b>MCS5</b> | <b>MCS6</b> | <b>MCS7</b> |
| 802.11n<br>(40) | 38      | 5190      | 12.62                       | 12.61       | 12.51       | 12.35       | 12.23       | 12.18       | 12.03       | 11.99       |
|                 | 46      | 5230      | 12.71                       | 12.69       | 12.67       | 12.60       | 12.58       | 12.57       | 12.43       | 12.38       |
|                 | 54      | 5270      | 12.49                       | 12.43       | 12.42       | 12.38       | 12.29       | 12.24       | 12.19       | 12.09       |
|                 | 62      | 5310      | 11.93                       | 11.76       | 11.59       | 11.54       | 11.36       | 11.20       | 11.17       | 11.06       |
|                 | 102     | 5510      | 10.45                       | 10.29       | 10.24       | 10.13       | 10.07       | 10.03       | 9.86        | 9.83        |
|                 | 110     | 5550      | 10.60                       | 10.45       | 10.29       | 10.13       | 9.95        | 9.92        | 9.73        | 9.55        |
|                 | 134     | 5670      | 12.74                       | 12.54       | 12.42       | 12.29       | 12.21       | 12.08       | 12.00       | 11.94       |
|                 | 151     | 5755      | 12.20                       | 12.14       | 11.98       | 11.87       | 11.73       | 11.54       | 11.46       | 11.32       |
|                 | 159     | 5795      | 11.74                       | 11.70       | 11.58       | 11.42       | 11.23       | 11.21       | 11.08       | 11.04       |

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| Mode             | channel | Frequency | Average Power(dBm) - Chain A |       |       |       |       |       |       |       |
|------------------|---------|-----------|------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                  |         |           | Data Rate(bps)               |       |       |       |       |       |       |       |
|                  |         |           | MCS0                         | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ac<br>(20) | 36      | 5180      | 12.33                        | 12.27 | 12.17 | 12.07 | 12.00 | 11.89 | 11.82 | 11.70 |
|                  | 40      | 5200      | 12.29                        | 12.18 | 12.17 | 12.13 | 11.93 | 11.85 | 11.75 | 11.72 |
|                  | 48      | 5240      | 12.52                        | 12.43 | 12.30 | 12.15 | 12.04 | 11.87 | 11.68 | 11.67 |
|                  | 52      | 5260      | 12.31                        | 12.24 | 12.23 | 12.07 | 12.01 | 12.01 | 11.92 | 11.82 |
|                  | 60      | 5300      | 11.97                        | 11.95 | 11.87 | 11.74 | 11.73 | 11.54 | 11.52 | 11.39 |
|                  | 64      | 5320      | 11.56                        | 11.51 | 11.48 | 11.31 | 11.24 | 11.24 | 11.23 | 11.04 |
|                  | 100     | 5500      | 10.12                        | 9.99  | 9.93  | 9.90  | 9.71  | 9.56  | 9.50  | 9.39  |
|                  | 116     | 5580      | 10.72                        | 10.58 | 10.54 | 10.41 | 10.27 | 10.12 | 9.92  | 9.84  |
|                  | 140     | 5700      | 13.00                        | 12.80 | 12.77 | 12.75 | 12.70 | 12.66 | 12.52 | 12.50 |
|                  | 149     | 5745      | 12.06                        | 11.97 | 11.96 | 11.93 | 11.78 | 11.58 | 11.52 | 11.34 |
|                  | 157     | 5785      | 11.71                        | 11.61 | 11.54 | 11.39 | 11.30 | 11.20 | 11.09 | 10.90 |
|                  | 165     | 5825      | 11.20                        | 11.14 | 11.03 | 10.87 | 10.67 | 10.61 | 10.48 | 10.40 |
|                  |         |           | MCS0                         | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ac<br>(40) | 38      | 5190      | 12.73                        | 12.53 | 12.52 | 12.36 | 12.31 | 12.20 | 12.04 | 12.01 |
|                  | 46      | 5230      | 12.62                        | 12.55 | 12.42 | 12.31 | 12.12 | 11.97 | 11.80 | 11.75 |
|                  | 54      | 5270      | 12.49                        | 12.49 | 12.36 | 12.30 | 12.26 | 12.18 | 12.03 | 11.85 |
|                  | 62      | 5310      | 11.94                        | 11.85 | 11.68 | 11.67 | 11.67 | 11.66 | 11.53 | 11.50 |
|                  | 102     | 5510      | 10.51                        | 10.50 | 10.41 | 10.40 | 10.39 | 10.25 | 10.21 | 10.07 |
|                  | 110     | 5550      | 10.76                        | 10.73 | 10.54 | 10.46 | 10.38 | 10.19 | 10.04 | 9.94  |
|                  | 134     | 5670      | 12.76                        | 12.58 | 12.55 | 12.44 | 12.34 | 12.24 | 12.07 | 11.91 |
|                  | 151     | 5755      | 12.20                        | 12.18 | 12.12 | 12.08 | 12.07 | 11.93 | 11.78 | 11.63 |
|                  | 159     | 5795      | 11.71                        | 11.62 | 11.43 | 11.41 | 11.37 | 11.27 | 11.09 | 11.04 |
|                  |         |           | MCS0                         | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ac<br>(80) | 42      | 5210      | 12.71                        | 12.64 | 12.57 | 12.45 | 12.39 | 12.34 | 12.28 | 12.24 |
|                  | 58      | 5290      | 12.10                        | 11.90 | 11.86 | 11.68 | 11.58 | 11.49 | 11.47 | 11.46 |
|                  | 106     | 5530      | 10.31                        | 10.26 | 10.11 | 9.95  | 9.82  | 9.78  | 9.69  | 9.53  |
|                  | 138     | 5690      | 11.17                        | 11.13 | 11.07 | 11.05 | 10.92 | 10.91 | 10.81 | 10.64 |
|                  | 155     | 5775      | 11.94                        | 11.75 | 11.59 | 11.51 | 11.39 | 11.32 | 11.12 | 11.09 |

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| Mode             | channel | Frequency | Average Power(dBm) - Chain A |       |       |       |       |       |       |       |
|------------------|---------|-----------|------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                  |         |           | Data Rate(bps)               |       |       |       |       |       |       |       |
|                  |         |           | MCS0                         | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ax<br>(20) | 36      | 5180      | 12.31                        | 12.23 | 12.09 | 11.90 | 11.88 | 11.72 | 11.58 | 11.52 |
|                  | 40      | 5200      | 12.24                        | 12.04 | 12.01 | 11.83 | 11.70 | 11.60 | 11.59 | 11.46 |
|                  | 48      | 5240      | 12.43                        | 12.24 | 12.18 | 12.17 | 12.14 | 12.02 | 11.85 | 11.67 |
|                  | 52      | 5260      | 12.26                        | 12.14 | 12.00 | 11.90 | 11.75 | 11.63 | 11.49 | 11.47 |
|                  | 60      | 5300      | 11.95                        | 11.94 | 11.80 | 11.64 | 11.60 | 11.44 | 11.40 | 11.39 |
|                  | 64      | 5320      | 11.65                        | 11.54 | 11.45 | 11.40 | 11.36 | 11.27 | 11.24 | 11.11 |
|                  | 100     | 5500      | 10.00                        | 9.96  | 9.93  | 9.88  | 9.69  | 9.67  | 9.64  | 9.45  |
|                  | 116     | 5580      | 10.43                        | 10.38 | 10.30 | 10.29 | 10.12 | 10.10 | 10.06 | 10.04 |
|                  | 140     | 5700      | 12.87                        | 12.74 | 12.62 | 12.57 | 12.57 | 12.46 | 12.45 | 12.39 |
|                  | 149     | 5745      | 11.91                        | 11.87 | 11.74 | 11.69 | 11.61 | 11.45 | 11.34 | 11.14 |
|                  | 157     | 5785      | 11.62                        | 11.55 | 11.41 | 11.31 | 11.12 | 10.93 | 10.92 | 10.91 |
|                  | 165     | 5825      | 11.06                        | 10.98 | 10.93 | 10.84 | 10.81 | 10.69 | 10.51 | 10.38 |
|                  |         |           | MCS0                         | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ax<br>(40) | 38      | 5190      | 12.68                        | 12.62 | 12.61 | 12.50 | 12.36 | 12.26 | 12.22 | 12.11 |
|                  | 46      | 5230      | 12.70                        | 12.53 | 12.41 | 12.40 | 12.24 | 12.15 | 12.08 | 12.01 |
|                  | 54      | 5270      | 12.58                        | 12.52 | 12.45 | 12.37 | 12.18 | 12.17 | 12.15 | 12.01 |
|                  | 62      | 5310      | 12.01                        | 11.99 | 11.92 | 11.82 | 11.64 | 11.49 | 11.40 | 11.23 |
|                  | 102     | 5510      | 10.48                        | 10.29 | 10.21 | 10.19 | 10.06 | 9.99  | 9.87  | 9.84  |
|                  | 110     | 5550      | 10.84                        | 10.78 | 10.74 | 10.70 | 10.60 | 10.50 | 10.43 | 10.31 |
|                  | 134     | 5670      | 12.85                        | 12.79 | 12.75 | 12.75 | 12.66 | 12.52 | 12.35 | 12.27 |
|                  | 151     | 5755      | 12.10                        | 11.97 | 11.78 | 11.71 | 11.60 | 11.53 | 11.34 | 11.34 |
|                  | 159     | 5795      | 11.68                        | 11.62 | 11.43 | 11.38 | 11.18 | 11.11 | 11.01 | 11.00 |
|                  |         |           | MCS0                         | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ax<br>(80) | 42      | 5210      | 12.85                        | 12.72 | 12.68 | 12.60 | 12.57 | 12.45 | 12.35 | 12.24 |
|                  | 58      | 5290      | 12.13                        | 12.02 | 11.89 | 11.82 | 11.70 | 11.65 | 11.51 | 11.42 |
|                  | 106     | 5530      | 10.40                        | 10.35 | 10.32 | 10.13 | 10.07 | 9.88  | 9.77  | 9.69  |
|                  | 138     | 5690      | 11.35                        | 11.30 | 11.22 | 11.04 | 10.91 | 10.84 | 10.69 | 10.65 |
|                  | 155     | 5775      | 12.01                        | 11.88 | 11.83 | 11.66 | 11.64 | 11.45 | 11.36 | 11.28 |

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| Mode            | channel | Frequency | Average Power(dBm)- Chain B |             |             |             |             |             |             |             |
|-----------------|---------|-----------|-----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                 |         |           | Data Rate(bps)              |             |             |             |             |             |             |             |
|                 |         |           | 6M                          | 9M          | 12M         | 18M         | 24M         | 36M         | 48M         | 54M         |
| 802.11a         | 36      | 5180      | <b>13.35</b>                | 13.28       | 13.13       | 12.98       | 12.97       | 12.87       | 12.79       | 12.68       |
|                 | 40      | 5200      | 13.23                       | 13.19       | 13.05       | 12.97       | 12.84       | 12.68       | 12.48       | 12.36       |
|                 | 48      | 5240      | 12.89                       | 12.75       | 12.56       | 12.50       | 12.33       | 12.19       | 12.15       | 12.04       |
|                 | 52      | 5260      | <b>13.10</b>                | 13.03       | 12.85       | 12.84       | 12.74       | 12.74       | 12.67       | 12.49       |
|                 | 60      | 5300      | 12.51                       | 12.36       | 12.33       | 12.24       | 12.11       | 12.07       | 11.97       | 11.82       |
|                 | 64      | 5320      | 12.00                       | 11.81       | 11.63       | 11.63       | 11.53       | 11.37       | 11.21       | 11.13       |
|                 | 100     | 5500      | <b>13.14</b>                | 13.12       | 13.10       | 13.03       | 12.91       | 12.89       | 12.81       | 12.68       |
|                 | 116     | 5580      | 12.90                       | 12.73       | 12.69       | 12.62       | 12.56       | 12.39       | 12.19       | 12.03       |
|                 | 140     | 5700      | 10.88                       | 10.74       | 10.71       | 10.67       | 10.58       | 10.46       | 10.36       | 10.22       |
|                 | 149     | 5745      | 12.44                       | 12.37       | 12.27       | 12.23       | 12.08       | 12.02       | 11.94       | 11.86       |
|                 | 157     | 5785      | <b>12.70</b>                | 12.70       | 12.55       | 12.43       | 12.29       | 12.22       | 12.16       | 12.00       |
|                 | 165     | 5825      | 12.57                       | 12.39       | 12.33       | 12.32       | 12.31       | 12.30       | 12.21       | 12.03       |
|                 |         |           | <b>MCS0</b>                 | <b>MCS1</b> | <b>MCS2</b> | <b>MCS3</b> | <b>MCS4</b> | <b>MCS5</b> | <b>MCS6</b> | <b>MCS7</b> |
| 802.11n<br>(20) | 36      | 5180      | 12.41                       | 12.31       | 12.17       | 12.00       | 11.84       | 11.82       | 11.70       | 11.55       |
|                 | 40      | 5200      | 12.33                       | 12.27       | 12.21       | 12.08       | 11.98       | 11.83       | 11.66       | 11.52       |
|                 | 48      | 5240      | 11.90                       | 11.87       | 11.79       | 11.67       | 11.48       | 11.36       | 11.22       | 11.16       |
|                 | 52      | 5260      | 12.33                       | 12.29       | 12.27       | 12.15       | 11.95       | 11.94       | 11.81       | 11.78       |
|                 | 60      | 5300      | 11.63                       | 11.56       | 11.45       | 11.42       | 11.41       | 11.38       | 11.20       | 11.13       |
|                 | 64      | 5320      | 11.17                       | 11.17       | 11.08       | 10.89       | 10.70       | 10.55       | 10.40       | 10.26       |
|                 | 100     | 5500      | 12.18                       | 12.07       | 11.88       | 11.88       | 11.76       | 11.59       | 11.43       | 11.33       |
|                 | 116     | 5580      | 12.07                       | 11.93       | 11.78       | 11.77       | 11.77       | 11.74       | 11.56       | 11.54       |
|                 | 140     | 5700      | 10.00                       | 9.84        | 9.64        | 9.54        | 9.36        | 9.20        | 9.15        | 9.10        |
|                 | 149     | 5745      | 11.59                       | 11.46       | 11.28       | 11.11       | 11.04       | 10.91       | 10.76       | 10.67       |
|                 | 157     | 5785      | 11.59                       | 11.48       | 11.36       | 11.34       | 11.31       | 11.16       | 10.98       | 10.82       |
|                 | 165     | 5825      | 11.60                       | 11.41       | 11.27       | 11.19       | 11.04       | 10.86       | 10.74       | 10.61       |
|                 |         |           | <b>MCS0</b>                 | <b>MCS1</b> | <b>MCS2</b> | <b>MCS3</b> | <b>MCS4</b> | <b>MCS5</b> | <b>MCS6</b> | <b>MCS7</b> |
| 802.11n<br>(40) | 38      | 5190      | 12.67                       | 12.51       | 12.50       | 12.36       | 12.23       | 12.11       | 11.92       | 11.78       |
|                 | 46      | 5230      | 12.15                       | 12.06       | 12.02       | 11.95       | 11.82       | 11.78       | 11.67       | 11.61       |
|                 | 54      | 5270      | 12.30                       | 12.12       | 12.04       | 11.96       | 11.88       | 11.81       | 11.62       | 11.54       |
|                 | 62      | 5310      | 11.42                       | 11.27       | 11.20       | 11.01       | 10.92       | 10.89       | 10.87       | 10.83       |
|                 | 102     | 5510      | 12.49                       | 12.29       | 12.29       | 12.10       | 11.99       | 11.96       | 11.94       | 11.83       |
|                 | 110     | 5550      | 12.44                       | 12.26       | 12.13       | 12.07       | 11.89       | 11.79       | 11.66       | 11.64       |
|                 | 134     | 5670      | 10.81                       | 10.81       | 10.76       | 10.59       | 10.53       | 10.45       | 10.45       | 10.32       |
|                 | 151     | 5755      | 11.89                       | 11.80       | 11.61       | 11.47       | 11.32       | 11.25       | 11.17       | 10.98       |
|                 | 159     | 5795      | 11.87                       | 11.86       | 11.85       | 11.76       | 11.76       | 11.58       | 11.41       | 11.38       |

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| Mode             | channel | Frequency | Average Power(dBm) - Chain B |       |       |       |       |       |       |       |
|------------------|---------|-----------|------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                  |         |           | Data Rate(bps)               |       |       |       |       |       |       |       |
|                  |         |           | MCS0                         | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ac<br>(20) | 36      | 5180      | 12.43                        | 12.39 | 12.30 | 12.13 | 12.05 | 11.90 | 11.77 | 11.75 |
|                  | 40      | 5200      | 12.31                        | 12.26 | 12.08 | 11.97 | 11.94 | 11.79 | 11.68 | 11.57 |
|                  | 48      | 5240      | 11.90                        | 11.75 | 11.68 | 11.55 | 11.41 | 11.39 | 11.35 | 11.34 |
|                  | 52      | 5260      | 12.25                        | 12.11 | 11.96 | 11.77 | 11.73 | 11.69 | 11.54 | 11.48 |
|                  | 60      | 5300      | 11.69                        | 11.56 | 11.55 | 11.44 | 11.30 | 11.29 | 11.23 | 11.15 |
|                  | 64      | 5320      | 11.15                        | 11.03 | 10.84 | 10.70 | 10.52 | 10.45 | 10.27 | 10.18 |
|                  | 100     | 5500      | 12.22                        | 12.07 | 12.04 | 12.04 | 12.00 | 11.93 | 11.92 | 11.86 |
|                  | 116     | 5580      | 12.04                        | 12.01 | 11.82 | 11.70 | 11.68 | 11.54 | 11.37 | 11.27 |
|                  | 140     | 5700      | 10.01                        | 9.99  | 9.96  | 9.77  | 9.72  | 9.56  | 9.51  | 9.48  |
|                  | 149     | 5745      | 11.59                        | 11.43 | 11.39 | 11.32 | 11.28 | 11.09 | 11.02 | 10.85 |
|                  | 157     | 5785      | 11.58                        | 11.53 | 11.41 | 11.32 | 11.25 | 11.18 | 11.02 | 10.89 |
|                  | 165     | 5825      | 11.59                        | 11.58 | 11.39 | 11.20 | 11.16 | 11.04 | 11.00 | 10.97 |
|                  |         |           | MCS0                         | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ac<br>(40) | 38      | 5190      | 12.65                        | 12.49 | 12.43 | 12.24 | 12.07 | 11.91 | 11.85 | 11.77 |
|                  | 46      | 5230      | 12.23                        | 12.04 | 11.94 | 11.76 | 11.63 | 11.48 | 11.40 | 11.37 |
|                  | 54      | 5270      | 12.27                        | 12.26 | 12.22 | 12.04 | 12.00 | 12.00 | 11.85 | 11.76 |
|                  | 62      | 5310      | 11.46                        | 11.32 | 11.22 | 11.16 | 11.03 | 11.01 | 10.88 | 10.85 |
|                  | 102     | 5510      | 12.52                        | 12.33 | 12.25 | 12.24 | 12.12 | 11.97 | 11.78 | 11.73 |
|                  | 110     | 5550      | 12.57                        | 12.55 | 12.39 | 12.34 | 12.22 | 12.08 | 11.90 | 11.78 |
|                  | 134     | 5670      | 10.95                        | 10.94 | 10.85 | 10.79 | 10.74 | 10.70 | 10.51 | 10.33 |
|                  | 151     | 5755      | 11.90                        | 11.80 | 11.63 | 11.54 | 11.48 | 11.30 | 11.26 | 11.16 |
|                  | 159     | 5795      | 11.89                        | 11.78 | 11.78 | 11.72 | 11.67 | 11.57 | 11.56 | 11.37 |
|                  |         |           | MCS0                         | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ac<br>(80) | 42      | 5210      | 12.75                        | 12.68 | 12.67 | 12.64 | 12.58 | 12.45 | 12.42 | 12.34 |
|                  | 58      | 5290      | 11.73                        | 11.68 | 11.65 | 11.45 | 11.36 | 11.19 | 11.02 | 10.94 |
|                  | 106     | 5530      | 12.50                        | 12.39 | 12.24 | 12.23 | 12.18 | 12.12 | 11.95 | 11.78 |
|                  | 138     | 5690      | 11.23                        | 11.19 | 11.11 | 10.97 | 10.87 | 10.84 | 10.74 | 10.57 |
|                  | 155     | 5775      | 11.80                        | 11.77 | 11.75 | 11.72 | 11.64 | 11.62 | 11.51 | 11.33 |

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| Mode             | channel | Frequency | Average Power(dBm) - Chain B |       |       |       |       |       |       |       |
|------------------|---------|-----------|------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                  |         |           | Data Rate(bps)               |       |       |       |       |       |       |       |
|                  |         |           | MCS0                         | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ax<br>(20) | 36      | 5180      | 12.42                        | 12.39 | 12.24 | 12.11 | 12.04 | 11.99 | 11.87 | 11.73 |
|                  | 40      | 5200      | 12.37                        | 12.25 | 12.05 | 11.96 | 11.90 | 11.83 | 11.74 | 11.59 |
|                  | 48      | 5240      | 11.93                        | 11.73 | 11.62 | 11.51 | 11.48 | 11.35 | 11.16 | 11.07 |
|                  | 52      | 5260      | 12.22                        | 12.20 | 12.11 | 12.00 | 11.90 | 11.71 | 11.64 | 11.51 |
|                  | 60      | 5300      | 11.55                        | 11.44 | 11.24 | 11.15 | 11.07 | 11.06 | 10.88 | 10.86 |
|                  | 64      | 5320      | 11.04                        | 10.93 | 10.79 | 10.60 | 10.44 | 10.37 | 10.29 | 10.17 |
|                  | 100     | 5500      | 12.21                        | 12.14 | 12.07 | 12.02 | 11.87 | 11.86 | 11.70 | 11.66 |
|                  | 116     | 5580      | 12.10                        | 12.02 | 11.95 | 11.80 | 11.75 | 11.62 | 11.55 | 11.41 |
|                  | 140     | 5700      | 9.93                         | 9.75  | 9.72  | 9.54  | 9.40  | 9.24  | 9.12  | 9.08  |
|                  | 149     | 5745      | 11.48                        | 11.45 | 11.39 | 11.38 | 11.32 | 11.15 | 11.04 | 10.90 |
|                  | 157     | 5785      | 11.57                        | 11.43 | 11.28 | 11.24 | 11.08 | 10.99 | 10.93 | 10.76 |
|                  | 165     | 5825      | 11.68                        | 11.55 | 11.49 | 11.33 | 11.27 | 11.19 | 11.03 | 10.96 |
|                  |         |           | MCS0                         | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ax<br>(40) | 38      | 5190      | 12.70                        | 12.68 | 12.64 | 12.46 | 12.32 | 12.27 | 12.10 | 12.08 |
|                  | 46      | 5230      | 12.21                        | 12.07 | 12.07 | 11.93 | 11.93 | 11.80 | 11.73 | 11.63 |
|                  | 54      | 5270      | 12.26                        | 12.11 | 12.02 | 11.88 | 11.86 | 11.73 | 11.66 | 11.64 |
|                  | 62      | 5310      | 11.47                        | 11.28 | 11.25 | 11.09 | 10.95 | 10.82 | 10.64 | 10.48 |
|                  | 102     | 5510      | 12.54                        | 12.43 | 12.36 | 12.28 | 12.14 | 12.05 | 11.87 | 11.67 |
|                  | 110     | 5550      | 12.54                        | 12.48 | 12.30 | 12.19 | 12.05 | 11.91 | 11.83 | 11.79 |
|                  | 134     | 5670      | 10.97                        | 10.83 | 10.81 | 10.81 | 10.76 | 10.71 | 10.57 | 10.37 |
|                  | 151     | 5755      | 11.94                        | 11.76 | 11.68 | 11.51 | 11.37 | 11.24 | 11.13 | 10.94 |
|                  | 159     | 5795      | 11.89                        | 11.70 | 11.68 | 11.61 | 11.53 | 11.51 | 11.31 | 11.21 |
|                  |         |           | MCS0                         | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ax<br>(80) | 42      | 5210      | 12.75                        | 12.61 | 12.43 | 12.38 | 12.22 | 12.18 | 12.02 | 11.97 |
|                  | 58      | 5290      | 11.72                        | 11.69 | 11.54 | 11.40 | 11.25 | 11.13 | 11.07 | 11.03 |
|                  | 106     | 5530      | 12.39                        | 12.26 | 12.16 | 12.04 | 12.02 | 11.94 | 11.89 | 11.71 |
|                  | 138     | 5690      | 11.37                        | 11.32 | 11.20 | 11.07 | 10.97 | 10.91 | 10.76 | 10.67 |
|                  | 155     | 5775      | 11.90                        | 11.82 | 11.75 | 11.67 | 11.65 | 11.51 | 11.41 | 11.22 |

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| Mode            | channel | Frequency | Average Power(dBm)- Chain A+B |             |             |             |             |             |             |             |
|-----------------|---------|-----------|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                 |         |           | Data Rate(bps)                |             |             |             |             |             |             |             |
|                 |         |           | 6M                            | 9M          | 12M         | 18M         | 24M         | 36M         | 48M         | 54M         |
|                 |         |           | <b>MCS0</b>                   | <b>MCS1</b> | <b>MCS2</b> | <b>MCS3</b> | <b>MCS4</b> | <b>MCS5</b> | <b>MCS6</b> | <b>MCS7</b> |
| 802.11n<br>(20) | 36      | 5180      | 15.34                         | 15.27       | 15.14       | 14.98       | 14.86       | 14.85       | 14.75       | 14.64       |
|                 | 40      | 5200      | 15.30                         | 15.21       | 15.09       | 15.02       | 14.89       | 14.78       | 14.69       | 14.62       |
|                 | 48      | 5240      | 15.18                         | 15.06       | 14.96       | 14.81       | 14.66       | 14.51       | 14.38       | 14.27       |
|                 | 52      | 5260      | 15.31                         | 15.29       | 15.21       | 15.06       | 14.93       | 14.86       | 14.70       | 14.67       |
|                 | 60      | 5300      | 14.83                         | 14.75       | 14.66       | 14.58       | 14.55       | 14.45       | 14.31       | 14.27       |
|                 | 64      | 5320      | 14.42                         | 14.40       | 14.34       | 14.16       | 14.05       | 13.94       | 13.81       | 13.67       |
|                 | 100     | 5500      | 14.32                         | 14.24       | 14.06       | 14.04       | 13.94       | 13.80       | 13.70       | 13.56       |
|                 | 116     | 5580      | 14.40                         | 14.25       | 14.13       | 14.06       | 13.98       | 13.93       | 13.79       | 13.73       |
|                 | 140     | 5700      | 14.73                         | 14.58       | 14.43       | 14.38       | 14.29       | 14.21       | 14.14       | 14.09       |
|                 | 149     | 5745      | 14.90                         | 14.78       | 14.58       | 14.46       | 14.33       | 14.25       | 14.10       | 14.05       |
|                 | 157     | 5785      | 14.72                         | 14.61       | 14.50       | 14.46       | 14.40       | 14.26       | 14.09       | 13.95       |
|                 | 165     | 5825      | 14.38                         | 14.28       | 14.14       | 14.10       | 14.00       | 13.86       | 13.76       | 13.61       |
|                 |         |           | <b>MCS0</b>                   | <b>MCS1</b> | <b>MCS2</b> | <b>MCS3</b> | <b>MCS4</b> | <b>MCS5</b> | <b>MCS6</b> | <b>MCS7</b> |
| 802.11n<br>(40) | 38      | 5190      | 15.66                         | 15.57       | 15.52       | 15.37       | 15.24       | 15.16       | 14.99       | 14.90       |
|                 | 46      | 5230      | 15.45                         | 15.40       | 15.37       | 15.30       | 15.23       | 15.20       | 15.08       | 15.02       |
|                 | 54      | 5270      | 15.41                         | 15.29       | 15.24       | 15.19       | 15.10       | 15.04       | 14.92       | 14.83       |
|                 | 62      | 5310      | 14.69                         | 14.53       | 14.41       | 14.29       | 14.16       | 14.06       | 14.03       | 13.96       |
|                 | 102     | 5510      | 14.60                         | 14.41       | 14.40       | 14.24       | 14.15       | 14.11       | 14.03       | 13.95       |
|                 | 110     | 5550      | 14.63                         | 14.46       | 14.32       | 14.22       | 14.04       | 13.97       | 13.81       | 13.73       |
|                 | 134     | 5670      | 14.89                         | 14.77       | 14.68       | 14.53       | 14.46       | 14.35       | 14.30       | 14.22       |
|                 | 151     | 5755      | 15.06                         | 14.98       | 14.81       | 14.68       | 14.54       | 14.41       | 14.33       | 14.16       |
|                 | 159     | 5795      | 14.82                         | 14.79       | 14.73       | 14.60       | 14.51       | 14.41       | 14.26       | 14.22       |

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| Mode             | channel | Frequency | Average Power(dBm) - Chain A+B |       |       |       |       |       |       |       |
|------------------|---------|-----------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                  |         |           | Data Rate(bps)                 |       |       |       |       |       |       |       |
|                  |         |           | MCS0                           | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ac<br>(20) | 36      | 5180      | 15.39                          | 15.34 | 15.25 | 15.11 | 15.04 | 14.91 | 14.81 | 14.74 |
|                  | 40      | 5200      | 15.31                          | 15.23 | 15.14 | 15.06 | 14.95 | 14.83 | 14.73 | 14.66 |
|                  | 48      | 5240      | 15.23                          | 15.11 | 15.01 | 14.87 | 14.75 | 14.65 | 14.53 | 14.52 |
|                  | 52      | 5260      | 15.29                          | 15.19 | 15.11 | 14.93 | 14.88 | 14.86 | 14.74 | 14.66 |
|                  | 60      | 5300      | 14.84                          | 14.77 | 14.72 | 14.60 | 14.53 | 14.43 | 14.39 | 14.28 |
|                  | 64      | 5320      | 14.37                          | 14.29 | 14.18 | 14.03 | 13.91 | 13.87 | 13.79 | 13.64 |
|                  | 100     | 5500      | 14.31                          | 14.16 | 14.12 | 14.11 | 14.01 | 13.92 | 13.89 | 13.81 |
|                  | 116     | 5580      | 14.44                          | 14.36 | 14.24 | 14.11 | 14.04 | 13.90 | 13.72 | 13.62 |
|                  | 140     | 5700      | 14.77                          | 14.63 | 14.60 | 14.52 | 14.47 | 14.39 | 14.28 | 14.26 |
|                  | 149     | 5745      | 14.84                          | 14.72 | 14.69 | 14.65 | 14.55 | 14.35 | 14.29 | 14.11 |
|                  | 157     | 5785      | 14.66                          | 14.58 | 14.49 | 14.37 | 14.29 | 14.20 | 14.07 | 13.91 |
|                  | 165     | 5825      | 14.41                          | 14.38 | 14.22 | 14.05 | 13.93 | 13.84 | 13.76 | 13.70 |
|                  |         |           | MCS0                           | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ac<br>(40) | 38      | 5190      | 15.70                          | 15.52 | 15.49 | 15.31 | 15.20 | 15.07 | 14.96 | 14.90 |
|                  | 46      | 5230      | 15.44                          | 15.31 | 15.20 | 15.05 | 14.89 | 14.74 | 14.61 | 14.57 |
|                  | 54      | 5270      | 15.39                          | 15.39 | 15.30 | 15.18 | 15.14 | 15.10 | 14.95 | 14.82 |
|                  | 62      | 5310      | 14.72                          | 14.60 | 14.47 | 14.43 | 14.37 | 14.36 | 14.23 | 14.20 |
|                  | 102     | 5510      | 14.64                          | 14.52 | 14.44 | 14.43 | 14.35 | 14.20 | 14.08 | 13.99 |
|                  | 110     | 5550      | 14.77                          | 14.74 | 14.57 | 14.51 | 14.41 | 14.25 | 14.08 | 13.97 |
|                  | 134     | 5670      | 14.96                          | 14.85 | 14.79 | 14.70 | 14.62 | 14.55 | 14.37 | 14.20 |
|                  | 151     | 5755      | 15.06                          | 15.00 | 14.89 | 14.83 | 14.80 | 14.64 | 14.54 | 14.41 |
|                  | 159     | 5795      | 14.81                          | 14.71 | 14.62 | 14.58 | 14.53 | 14.43 | 14.34 | 14.22 |
|                  |         |           | MCS0                           | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ac<br>(80) | 42      | 5210      | 15.74                          | 15.67 | 15.63 | 15.56 | 15.50 | 15.41 | 15.36 | 15.30 |
|                  | 58      | 5290      | 14.93                          | 14.80 | 14.77 | 14.58 | 14.48 | 14.35 | 14.26 | 14.22 |
|                  | 106     | 5530      | 14.55                          | 14.46 | 14.31 | 14.25 | 14.17 | 14.12 | 13.98 | 13.81 |
|                  | 138     | 5690      | 14.21                          | 14.17 | 14.10 | 14.02 | 13.91 | 13.89 | 13.79 | 13.62 |
|                  | 155     | 5775      | 14.88                          | 14.77 | 14.68 | 14.63 | 14.53 | 14.48 | 14.33 | 14.22 |

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| Mode             | channel | Frequency | Average Power(dBm) - Chain A+B |       |       |       |       |       |       |       |
|------------------|---------|-----------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                  |         |           | Data Rate(bps)                 |       |       |       |       |       |       |       |
|                  |         |           | MCS0                           | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ax<br>(20) | 36      | 5180      | 15.38                          | 15.32 | 15.18 | 15.02 | 14.97 | 14.87 | 14.74 | 14.64 |
|                  | 40      | 5200      | 15.32                          | 15.16 | 15.04 | 14.91 | 14.81 | 14.73 | 14.68 | 14.54 |
|                  | 48      | 5240      | 15.20                          | 15.00 | 14.92 | 14.86 | 14.83 | 14.71 | 14.53 | 14.39 |
|                  | 52      | 5260      | 15.25                          | 15.18 | 15.07 | 14.96 | 14.84 | 14.68 | 14.58 | 14.50 |
|                  | 60      | 5300      | 14.76                          | 14.71 | 14.54 | 14.41 | 14.35 | 14.26 | 14.16 | 14.14 |
|                  | 64      | 5320      | 14.37                          | 14.26 | 14.14 | 14.03 | 13.93 | 13.85 | 13.80 | 13.68 |
|                  | 100     | 5500      | 14.25                          | 14.20 | 14.14 | 14.09 | 13.93 | 13.91 | 13.80 | 13.70 |
|                  | 116     | 5580      | 14.36                          | 14.29 | 14.21 | 14.12 | 14.02 | 13.94 | 13.88 | 13.79 |
|                  | 140     | 5700      | 14.65                          | 14.51 | 14.42 | 14.32 | 14.28 | 14.15 | 14.11 | 14.05 |
|                  | 149     | 5745      | 14.71                          | 14.68 | 14.58 | 14.55 | 14.48 | 14.31 | 14.20 | 14.03 |
|                  | 157     | 5785      | 14.61                          | 14.50 | 14.36 | 14.29 | 14.11 | 13.97 | 13.94 | 13.85 |
|                  | 165     | 5825      | 14.39                          | 14.28 | 14.23 | 14.10 | 14.06 | 13.96 | 13.79 | 13.69 |
|                  |         |           | MCS0                           | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ax<br>(40) | 38      | 5190      | 15.70                          | 15.66 | 15.64 | 15.49 | 15.35 | 15.28 | 15.17 | 15.11 |
|                  | 46      | 5230      | 15.47                          | 15.32 | 15.25 | 15.18 | 15.10 | 14.99 | 14.92 | 14.83 |
|                  | 54      | 5270      | 15.43                          | 15.33 | 15.25 | 15.14 | 15.03 | 14.97 | 14.92 | 14.84 |
|                  | 62      | 5310      | 14.76                          | 14.66 | 14.61 | 14.48 | 14.32 | 14.18 | 14.05 | 13.88 |
|                  | 102     | 5510      | 14.64                          | 14.50 | 14.43 | 14.37 | 14.23 | 14.15 | 13.99 | 13.86 |
|                  | 110     | 5550      | 14.78                          | 14.72 | 14.60 | 14.52 | 14.40 | 14.27 | 14.20 | 14.12 |
|                  | 134     | 5670      | 15.02                          | 14.93 | 14.90 | 14.90 | 14.82 | 14.72 | 14.56 | 14.43 |
|                  | 151     | 5755      | 15.03                          | 14.88 | 14.74 | 14.62 | 14.50 | 14.40 | 14.25 | 14.15 |
|                  | 159     | 5795      | 14.80                          | 14.67 | 14.57 | 14.51 | 14.37 | 14.32 | 14.17 | 14.12 |
|                  |         |           | MCS0                           | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| 802.11ax<br>(80) | 42      | 5210      | 15.81                          | 15.68 | 15.57 | 15.50 | 15.41 | 15.33 | 15.20 | 15.12 |
|                  | 58      | 5290      | 14.94                          | 14.87 | 14.73 | 14.63 | 14.49 | 14.41 | 14.31 | 14.24 |
|                  | 106     | 5530      | 14.52                          | 14.42 | 14.35 | 14.20 | 14.16 | 14.04 | 13.97 | 13.83 |
|                  | 138     | 5690      | 14.37                          | 14.32 | 14.22 | 14.07 | 13.95 | 13.89 | 13.74 | 13.67 |
|                  | 155     | 5775      | 14.97                          | 14.86 | 14.80 | 14.68 | 14.66 | 14.49 | 14.40 | 14.26 |

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## 13. TEST RESULTS

### 13.1. SAR Test Results Summary

#### 13.1.1. Test position and configuration

1. The EUT is a Laptop Computer
2. According to FCC PAG, Lab use the head liquid with a separation of 0mm at flat phantom to test;
3. For SAR testing, the device was controlled by software to test at reference fixed frequency points.

#### 13.1.2. Operation Mode

1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional.
2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is  $\geq 0.8$ W/kg, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
  - (1) When the original highest measured SAR is  $\geq 0.8$ W/kg, repeat that measurement once.
  - (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is  $>1.20$  or when the original or repeated measurement is  $\geq 1.45$  W/kg.
  - (3) Perform a third repeated measurement only if the original, first and second repeated measurement is  $\geq 1.5$  W/kg and ratio of largest to smallest SAR for the original, first and second measurement is  $\geq 1.20$ .
3. Per KDB616217 D04 v01r02, The antennas in tablets are typically located near the back (bottom) surface and/or along the edges of the devices; therefore, SAR evaluation is required for these configurations. Exposures from antennas through the front (top) surface of the display section of a full-size tablet, away from the edges, are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary, except for tablets that are designed to require continuous operations with the hand(s) next to the antenna(s).
4. Per KDB 248227 D01 v02r02 Chapter 5.2.2,when SAR measurement is required for 2.4GHz 802.11g/n OFDM configurations, the measurement and test reducing procedures for OFDM are applied. SAR is not required for the following 2.4 GHz OFDM conditions.
  - (1) When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.
  - (2) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg,
5. Per KDB 248227 D01 v02r02 Chapter 5.3.4, SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, the procedures in 5.3.2 are applied to determine the test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

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- (1) When SAR test exclusion provisions of KDB Publication 447498 D01 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
  - (2) When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is  $\leq 1.2 \text{ W/kg}$ , SAR is not required for that subsequent test configuration.
  - (3) When the specified maximum output power is same for both UNII 1 and UNII 2A, begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the report SAR for UNII 2A is  $< 1.2 \text{ W/kg}$ , SAR is not required for UNII 1; otherwise treat the remaining bands separately and test them independently for SAR.
  - (4) When the specified maximum output power different between UNII 1 and UNII 2A, begin SAR with the band that has the higher specified maximum output. If the highest reported SAR for the band with the highest specified power is  $\leq 1.2 \text{ W/kg}$ , testing for the band with the lower specified output power is not required; otherwise test is remaining separately for SAR;
6. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:  
Maximum Scaling SAR = tested SAR (Max.)  $\times$  [maximum turn-up power (mW)/ maximum measurement output power(mW)]

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### 13.1.3. SAR Test Results Summary

| SAR MEASUREMENT                    |      |     |           |                    |                 |                          |                          |                        |                   |            |
|------------------------------------|------|-----|-----------|--------------------|-----------------|--------------------------|--------------------------|------------------------|-------------------|------------|
| Depth of Liquid (cm):>15           |      |     |           |                    |                 |                          |                          |                        |                   |            |
| Product: Laptop Computer           |      |     |           |                    |                 |                          |                          |                        |                   |            |
| Position                           | Mode | Ch. | Fr. (MHz) | Power Drift (<±5%) | SAR (1g) (W/kg) | Max. Tune-up Power (dBm) | Meas. Output Power (dBm) | Tune-up Scaling factor | Scaled SAR (W/kg) | Limit W/kg |
| Test Mode: 2.4GHz 802.11b- Chain A |      |     |           |                    |                 |                          |                          |                        |                   |            |
| Body back                          | DTS  | 6   | 2437      | -2.730             | 0.020           | 13.60                    | 13.25                    | 1.084                  | <b>0.022</b>      | 1.6        |
| Edge 1 (Top)                       | DTS  | 6   | 2437      | -3.750             | 0.013           | 13.60                    | 13.25                    | 1.084                  | 0.014             | 1.6        |
| Test Mode: 2.4GHz 802.11b- Chain B |      |     |           |                    |                 |                          |                          |                        |                   |            |
| Body back                          | DTS  | 6   | 2437      | -2.590             | 0.029           | 13.20                    | 12.78                    | 1.102                  | <b>0.032</b>      | 1.6        |
| Edge 1 (Top)                       | DTS  | 6   | 2437      | -1.430             | 0.012           | 13.20                    | 12.78                    | 1.102                  | 0.013             | 1.6        |

| SAR MEASUREMENT                        |      |     |           |                    |                 |                          |                          |                        |                   |            |
|----------------------------------------|------|-----|-----------|--------------------|-----------------|--------------------------|--------------------------|------------------------|-------------------|------------|
| Depth of Liquid (cm):>15               |      |     |           |                    |                 |                          |                          |                        |                   |            |
| Product: Laptop Computer               |      |     |           |                    |                 |                          |                          |                        |                   |            |
| Position                               | Mode | Ch. | Fr. (MHz) | Power Drift (<±5%) | SAR (1g) (W/kg) | Max. Tune-up Power (dBm) | Meas. Output Power (dBm) | Tune-up Scaling factor | Scaled SAR (W/kg) | Limit W/kg |
| Test Mode: 2.4GHz 802.11 ax40- Chain A |      |     |           |                    |                 |                          |                          |                        |                   |            |
| Body back                              | DTS  | 3   | 2422      | -2.640             | 0.015           | 11.20                    | 11.09                    | 1.026                  | <b>0.015</b>      | 1.6        |
| Edge 1 (Top)                           | DTS  | 3   | 2422      | -0.320             | 0.008           | 11.20                    | 11.09                    | 1.026                  | 0.008             | 1.6        |
| Test Mode: 2.4GHz 802.11 ax40- Chain B |      |     |           |                    |                 |                          |                          |                        |                   |            |
| Body back                              | DTS  | 3   | 2422      | -4.410             | 0.023           | 10.50                    | 10.42                    | 1.019                  | <b>0.023</b>      | 1.6        |
| Edge 1 (Top)                           | DTS  | 3   | 2422      | -3.160             | 0.016           | 10.50                    | 10.42                    | 1.019                  | 0.016             | 1.6        |

| SAR MEASUREMENT                         |                            |                            |                             |              |
|-----------------------------------------|----------------------------|----------------------------|-----------------------------|--------------|
| Depth of Liquid (cm):>15                |                            |                            |                             |              |
| Product: Laptop Computer                |                            |                            |                             |              |
| Position                                | Scaled SAR- Chain A (W/kg) | Scaled SAR- Chain B (W/kg) | Scaled SAR-Chain A+B (W/kg) | Limit (W/kg) |
| Test Mode: 2.4GHz 802.11 ax40-Chain A+B |                            |                            |                             |              |
| Body back                               | 0.015                      | 0.023                      | <b>0.038</b>                | 1.6          |
| Edge 1 (Top)                            | 0.008                      | 0.016                      | 0.024                       | 1.6          |

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| SAR MEASUREMENT                    |     |           |                    |                 |                          |                          |                        |                   |              |
|------------------------------------|-----|-----------|--------------------|-----------------|--------------------------|--------------------------|------------------------|-------------------|--------------|
| Depth of Liquid (cm):>15           |     |           |                    |                 |                          |                          |                        |                   |              |
| Product: Laptop Computer           |     |           |                    |                 |                          |                          |                        |                   |              |
| Position                           | Ch. | Fr. (MHz) | Power Drift (<±5%) | SAR (1g) (W/kg) | Max. Tune-up Power (dBm) | Meas. Output Power (dBm) | Tune-up Scaling factor | Scaled SAR (W/kg) | Limit (W/kg) |
| Test Mode: 5.2GHz 802.11a- Chain A |     |           |                    |                 |                          |                          |                        |                   |              |
| Body back                          | 40  | 5200      | 1.100              | 0.201           | 13.50                    | 13.22                    | 1.067                  | <b>0.214</b>      | 1.6          |
| Edge 1 (Top)                       | 40  | 5200      | -4.220             | 0.088           | 13.50                    | 13.22                    | 1.067                  | 0.094             | 1.6          |
| Test Mode: 5.2GHz 802.11a- Chain B |     |           |                    |                 |                          |                          |                        |                   |              |
| Body back                          | 40  | 5200      | -0.640             | 0.244           | 13.50                    | 13.23                    | 1.064                  | <b>0.260</b>      | 1.6          |
| Edge 1 (Top)                       | 40  | 5200      | -3.900             | 0.092           | 13.50                    | 13.23                    | 1.064                  | 0.098             | 1.6          |

| SAR MEASUREMENT                         |     |           |                    |                 |                          |                          |                        |                   |              |
|-----------------------------------------|-----|-----------|--------------------|-----------------|--------------------------|--------------------------|------------------------|-------------------|--------------|
| Depth of Liquid (cm):>15                |     |           |                    |                 |                          |                          |                        |                   |              |
| Product: Laptop Computer                |     |           |                    |                 |                          |                          |                        |                   |              |
| Position                                | Ch. | Fr. (MHz) | Power Drift (<±5%) | SAR (1g) (W/kg) | Max. Tune-up Power (dBm) | Meas. Output Power (dBm) | Tune-up Scaling factor | Scaled SAR (W/kg) | Limit (W/kg) |
| Test Mode: 5.2GHz 802.11ax(80)- Chain A |     |           |                    |                 |                          |                          |                        |                   |              |
| Body back                               | 42  | 5210      | 1.400              | 0.174           | 13.00                    | 12.85                    | 1.035                  | <b>0.180</b>      | 1.6          |
| Edge 1 (Top)                            | 42  | 5210      | -2.030             | 0.060           | 13.00                    | 12.85                    | 1.035                  | 0.062             | 1.6          |
| Test Mode: 5.2GHz 802.11ax(80)- Chain B |     |           |                    |                 |                          |                          |                        |                   |              |
| Body back                               | 42  | 5210      | 2.170              | 0.142           | 13.00                    | 12.75                    | 1.059                  | <b>0.150</b>      | 1.6          |
| Edge 1 (Top)                            | 42  | 5210      | 1.280              | 0.043           | 13.00                    | 12.75                    | 1.059                  | 0.046             | 1.6          |

| SAR MEASUREMENT                          |                            |                            |                             |              |
|------------------------------------------|----------------------------|----------------------------|-----------------------------|--------------|
| Depth of Liquid (cm):>15                 |                            |                            |                             |              |
| Product: Laptop Computer                 |                            |                            |                             |              |
| Position                                 | Scaled SAR- Chain A (W/kg) | Scaled SAR- Chain B (W/kg) | Scaled SAR-Chain A+B (W/kg) | Limit (W/kg) |
| Test Mode: 5.2GHz 802.11ax(80)-Chain A+B |                            |                            |                             |              |
| Body back                                | 0.180                      | 0.150                      | <b>0.330</b>                | 1.6          |
| Edge 1 (Top)                             | 0.062                      | 0.046                      | 0.108                       | 1.6          |

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| SAR MEASUREMENT                    |     |           |                    |                 |                          |                          |                        |                   |              |
|------------------------------------|-----|-----------|--------------------|-----------------|--------------------------|--------------------------|------------------------|-------------------|--------------|
| Depth of Liquid (cm):>15           |     |           |                    |                 |                          |                          |                        |                   |              |
| Product: Laptop Computer           |     |           |                    |                 |                          |                          |                        |                   |              |
| Position                           | Ch. | Fr. (MHz) | Power Drift (<±5%) | SAR (1g) (W/kg) | Max. Tune-up Power (dBm) | Meas. Output Power (dBm) | Tune-up Scaling factor | Scaled SAR (W/kg) | Limit (W/kg) |
| Test Mode: 5.3GHz 802.11a- Chain A |     |           |                    |                 |                          |                          |                        |                   |              |
| Body back                          | 60  | 5300      | 4.750              | 0.177           | 13.20                    | 12.81                    | 1.094                  | <b>0.194</b>      | 1.6          |
| Edge 1 (Top)                       | 60  | 5300      | -3.930             | 0.083           | 13.20                    | 12.81                    | 1.094                  | 0.091             | 1.6          |
| Test Mode: 5.3GHz 802.11a- Chain B |     |           |                    |                 |                          |                          |                        |                   |              |
| Body back                          | 52  | 5260      | -1.060             | 0.204           | 13.20                    | <b>13.10</b>             | 1.023                  | <b>0.209</b>      | 1.6          |
| Edge 1 (Top)                       | 52  | 5260      | -1.850             | 0.091           | 13.20                    | <b>13.10</b>             | 1.023                  | 0.093             | 1.6          |

| SAR MEASUREMENT                         |     |           |                    |                 |                          |                          |                        |                   |              |
|-----------------------------------------|-----|-----------|--------------------|-----------------|--------------------------|--------------------------|------------------------|-------------------|--------------|
| Depth of Liquid (cm):>15                |     |           |                    |                 |                          |                          |                        |                   |              |
| Product: Laptop Computer                |     |           |                    |                 |                          |                          |                        |                   |              |
| Position                                | Ch. | Fr. (MHz) | Power Drift (<±5%) | SAR (1g) (W/kg) | Max. Tune-up Power (dBm) | Meas. Output Power (dBm) | Tune-up Scaling factor | Scaled SAR (W/kg) | Limit (W/kg) |
| Test Mode: 5.3GHz 802.11ax(40)- Chain A |     |           |                    |                 |                          |                          |                        |                   |              |
| Body back                               | 54  | 5270      | -0.030             | 0.140           | 13.00                    | 12.58                    | 1.102                  | <b>0.154</b>      | 1.6          |
| Edge 1 (Top)                            | 54  | 5270      | -0.820             | 0.051           | 13.00                    | 12.58                    | 1.102                  | 0.056             | 1.6          |
| Test Mode: 5.3GHz 802.11ax(40)- Chain B |     |           |                    |                 |                          |                          |                        |                   |              |
| Body back                               | 54  | 5270      | -3.980             | 0.204           | 12.50                    | 12.26                    | 1.057                  | <b>0.216</b>      | 1.6          |
| Edge 1 (Top)                            | 54  | 5270      | -2.160             | 0.086           | 12.50                    | 12.26                    | 1.057                  | 0.091             | 1.6          |

| SAR MEASUREMENT                          |                               |                               |                                |              |
|------------------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------|
| Depth of Liquid (cm):>15                 |                               |                               |                                |              |
| Product: Laptop Computer                 |                               |                               |                                |              |
| Position                                 | Scaled SAR- Chain A<br>(W/kg) | Scaled SAR- Chain B<br>(W/kg) | Scaled SAR-Chain A+B<br>(W/kg) | Limit (W/kg) |
| Test Mode: 5.3GHz 802.11ax(40)-Chain A+B |                               |                               |                                |              |
| Body back                                | 0.154                         | 0.216                         | 0.370                          | 1.6          |
| Edge 1 (Top)                             | 0.056                         | 0.091                         | 0.147                          | 1.6          |

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| SAR MEASUREMENT                    |     |           |                    |                 |                          |                          |                        |                   |              |
|------------------------------------|-----|-----------|--------------------|-----------------|--------------------------|--------------------------|------------------------|-------------------|--------------|
| Depth of Liquid (cm):>15           |     |           |                    |                 |                          |                          |                        |                   |              |
| Product: Laptop Computer           |     |           |                    |                 |                          |                          |                        |                   |              |
| Position                           | Ch. | Fr. (MHz) | Power Drift (<±5%) | SAR (1g) (W/kg) | Max. Tune-up Power (dBm) | Meas. Output Power (dBm) | Tune-up Scaling factor | Scaled SAR (W/kg) | Limit (W/kg) |
| Test Mode: 5.6GHz 802.11a- Chain A |     |           |                    |                 |                          |                          |                        |                   |              |
| Body back                          | 140 | 5700      | 1.200              | 0.272           | 13.80                    | 13.75                    | 1.012                  | <b>0.275</b>      | 1.6          |
| Edge 1 (Top)                       | 140 | 5700      | -4.510             | 0.080           | 13.80                    | 13.75                    | 1.012                  | 0.081             | 1.6          |
| Test Mode: 5.6GHz 802.11a- Chain B |     |           |                    |                 |                          |                          |                        |                   |              |
| Body back                          | 116 | 5580      | -3.120             | 0.170           | 13.20                    | 12.90                    | 1.072                  | <b>0.182</b>      | 1.6          |
| Edge 1 (Top)                       | 116 | 5580      | -2.880             | 0.092           | 13.20                    | 12.90                    | 1.072                  | 0.099             | 1.6          |

| SAR MEASUREMENT                         |     |           |                    |                 |                          |                          |                        |                   |              |
|-----------------------------------------|-----|-----------|--------------------|-----------------|--------------------------|--------------------------|------------------------|-------------------|--------------|
| Depth of Liquid (cm):>15                |     |           |                    |                 |                          |                          |                        |                   |              |
| Product: Laptop Computer                |     |           |                    |                 |                          |                          |                        |                   |              |
| Position                                | Ch. | Fr. (MHz) | Power Drift (<±5%) | SAR (1g) (W/kg) | Max. Tune-up Power (dBm) | Meas. Output Power (dBm) | Tune-up Scaling factor | Scaled SAR (W/kg) | Limit (W/kg) |
| Test Mode: 5.6GHz 802.11ax(40)- Chain A |     |           |                    |                 |                          |                          |                        |                   |              |
| Body back                               | 134 | 5670      | -1.590             | 0.241           | 13.00                    | 12.85                    | 1.035                  | <b>0.249</b>      | 1.6          |
| Edge 1 (Top)                            | 134 | 5670      | -2.060             | 0.073           | 13.00                    | 12.85                    | 1.035                  | 0.076             | 1.6          |
| Test Mode: 5.6GHz 802.11ax(40)- Chain B |     |           |                    |                 |                          |                          |                        |                   |              |
| Body back                               | 110 | 5550      | -1.420             | 0.135           | 13.00                    | 12.54                    | 1.112                  | <b>0.150</b>      | 1.6          |
| Edge 1 (Top)                            | 110 | 5550      | 1.920              | 0.081           | 13.00                    | 12.54                    | 1.112                  | 0.090             | 1.6          |

| SAR MEASUREMENT                          |                               |                               |                                |              |
|------------------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------|
| Depth of Liquid (cm):>15                 |                               |                               |                                |              |
| Product: Laptop Computer                 |                               |                               |                                |              |
| Position                                 | Scaled SAR- Chain A<br>(W/kg) | Scaled SAR- Chain B<br>(W/kg) | Scaled SAR-Chain A+B<br>(W/kg) | Limit (W/kg) |
| Test Mode: 5.6GHz 802.11ax(40)-Chain A+B |                               |                               |                                |              |
| Body back                                | 0.249                         | 0.150                         | 0.399                          | 1.6          |
| Edge 1 (Top)                             | 0.076                         | 0.090                         | 0.166                          | 1.6          |

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| SAR MEASUREMENT                    |     |           |                    |                 |                          |                          |                        |                   |              |
|------------------------------------|-----|-----------|--------------------|-----------------|--------------------------|--------------------------|------------------------|-------------------|--------------|
| Depth of Liquid (cm):>15           |     |           |                    |                 |                          |                          |                        |                   |              |
| Product: Laptop Computer           |     |           |                    |                 |                          |                          |                        |                   |              |
| Position                           | Ch. | Fr. (MHz) | Power Drift (<±5%) | SAR (1g) (W/kg) | Max. Tune-up Power (dBm) | Meas. Output Power (dBm) | Tune-up Scaling factor | Scaled SAR (W/kg) | Limit (W/kg) |
| Test Mode: 5.8GHz 802.11a- Chain A |     |           |                    |                 |                          |                          |                        |                   |              |
| Body back                          | 157 | 5785      | -2.070             | 0.231           | 13.20                    | 12.87                    | 1.079                  | <b>0.249</b>      | 1.6          |
| Edge 1 (Top)                       | 157 | 5785      | 2.070              | 0.109           | 13.20                    | 12.87                    | 1.079                  | 0.118             | 1.6          |
| Test Mode: 5.8GHz 802.11a- Chain B |     |           |                    |                 |                          |                          |                        |                   |              |
| Body back                          | 157 | 5785      | -1.400             | 0.185           | 13.00                    | 12.70                    | 1.072                  | <b>0.198</b>      | 1.6          |
| Edge 1 (Top)                       | 157 | 5785      | -4.400             | 0.149           | 13.00                    | 12.70                    | 1.072                  | 0.160             | 1.6          |

| SAR MEASUREMENT                         |     |           |                    |                 |                          |                          |                        |                   |              |
|-----------------------------------------|-----|-----------|--------------------|-----------------|--------------------------|--------------------------|------------------------|-------------------|--------------|
| Depth of Liquid (cm):>15                |     |           |                    |                 |                          |                          |                        |                   |              |
| Product: Laptop Computer                |     |           |                    |                 |                          |                          |                        |                   |              |
| Position                                | Ch. | Fr. (MHz) | Power Drift (<±5%) | SAR (1g) (W/kg) | Max. Tune-up Power (dBm) | Meas. Output Power (dBm) | Tune-up Scaling factor | Scaled SAR (W/kg) | Limit (W/kg) |
| Test Mode: 5.8GHz 802.11ac(40)- Chain A |     |           |                    |                 |                          |                          |                        |                   |              |
| Body back                               | 151 | 5755      | -1.830             | 0.174           | 12.50                    | 12.20                    | 1.072                  | <b>0.186</b>      | 1.6          |
| Edge 1 (Top)                            | 151 | 5755      | 1.410              | 0.079           | 12.50                    | 12.20                    | 1.072                  | 0.085             | 1.6          |
| Test Mode: 5.8GHz 802.11ac(40)- Chain B |     |           |                    |                 |                          |                          |                        |                   |              |
| Body back                               | 151 | 5755      | -1.450             | 0.178           | 12.00                    | 11.90                    | 1.023                  | <b>0.182</b>      | 1.6          |
| Edge 1 (Top)                            | 151 | 5755      | -2.170             | 0.129           | 12.00                    | 11.90                    | 1.023                  | 0.132             | 1.6          |

| SAR MEASUREMENT                          |                            |                            |                             |              |
|------------------------------------------|----------------------------|----------------------------|-----------------------------|--------------|
| Depth of Liquid (cm):>15                 |                            |                            |                             |              |
| Product: Laptop Computer                 |                            |                            |                             |              |
| Position                                 | Scaled SAR- Chain A (W/kg) | Scaled SAR- Chain B (W/kg) | Scaled SAR-Chain A+B (W/kg) | Limit (W/kg) |
| Test Mode: 5.8GHz 802.11ac(40)-Chain A+B |                            |                            |                             |              |
| Body back                                | 0.186                      | 0.182                      | 0.368                       | 1.6          |
| Edge 1 (Top)                             | 0.085                      | 0.132                      | 0.217                       | 1.6          |

Note:

- When the 1-g SAR is  $\leq 0.8\text{W/kg}$ , testing for low and high channel is optional.
- The test separation of all above table is 0mm.
- Plots are only shown for the bold marked worst case SAR results

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## APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab

Date: Dec. 03, 2025

System Check Head 2450 MHz

DUT: Dipole 2450 MHz Type: SID 2450

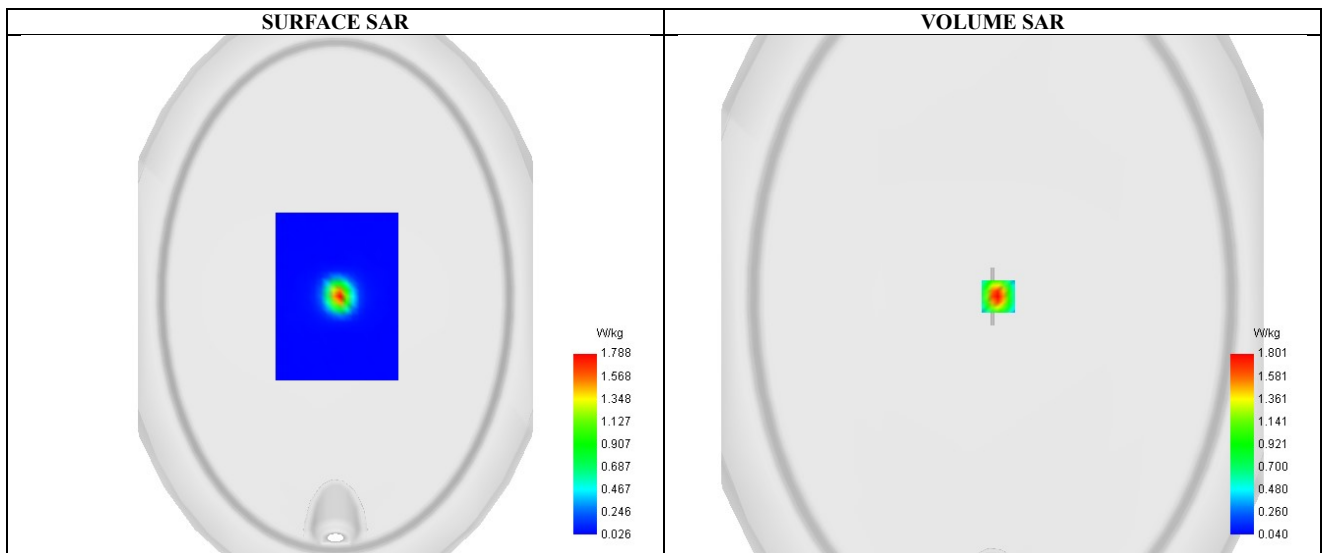
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.29  
Frequency: 2450 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.81$  mho/m;  $\epsilon_r = 38.68$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=15dBm

SATIMO Configuration

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/System Check 2450MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 2450MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm



Maximum location: X=5.00, Y=0.00 ; SAR Peak: 3.15 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.774     |
| SAR 1g (W/Kg)                                         | 1.688     |
| Variation (%)                                         | -3.950    |
| Horizontal validation criteria: minimum distance (mm) | 14.142136 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 45.571658 |

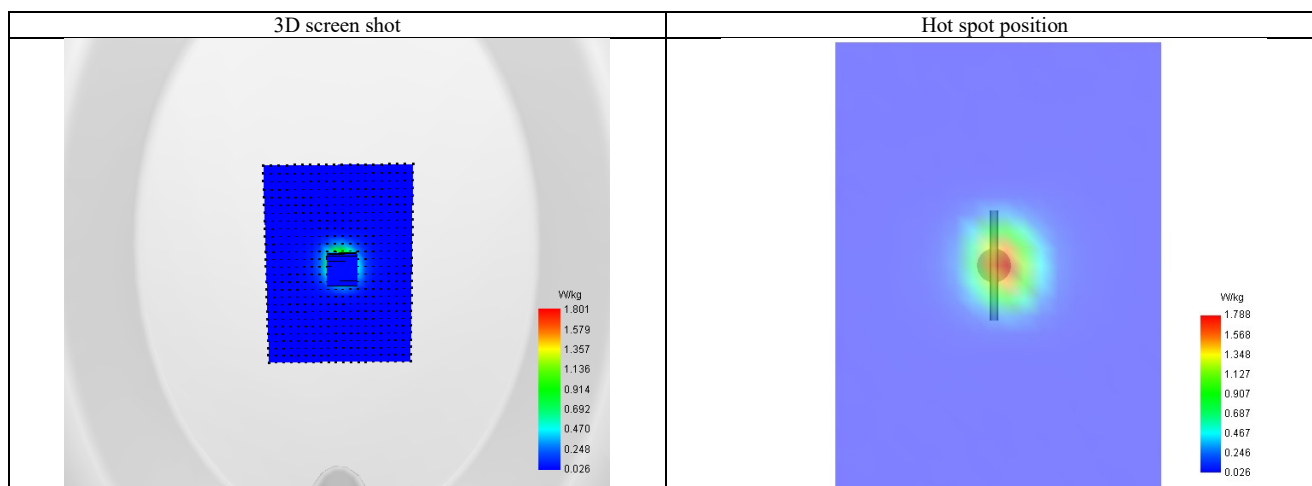
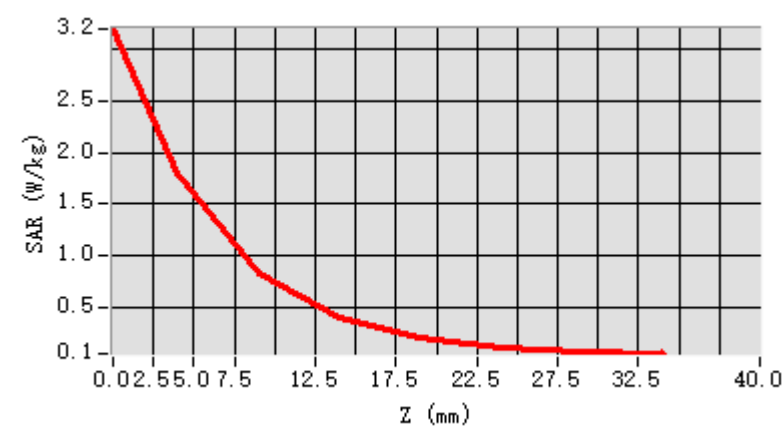
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| Z (mm)     | 0.00  | 4.00  | 9.00  | 14.00 | 19.00 | 24.00 | 29.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 3.204 | 1.817 | 0.840 | 0.409 | 0.215 | 0.133 | 0.079 |



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**Test Laboratory: AGC Lab**  
**System Check Head 5200 MHz**  
**DUT: Dipole 5000MHz Type: SID5000**

**Date: Dec. 04, 2025**

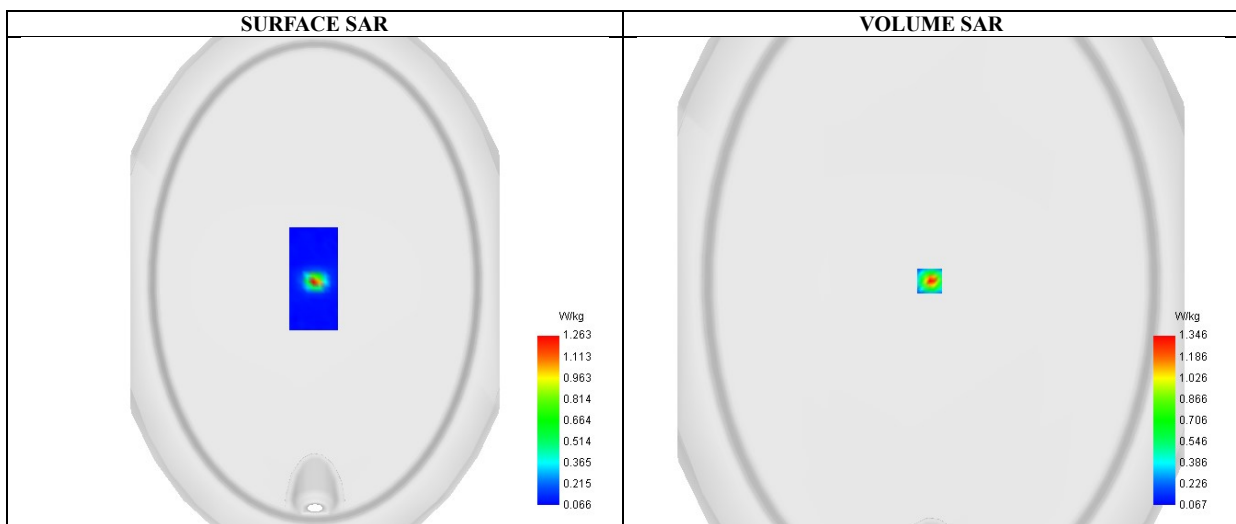
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.54  
Frequency: 5200 MHz; Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.55$  mho/m;  $\epsilon_r = 35.60$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=10dBm

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/System Check 5200 MHz Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/System Check 5200 MHz Head/Zoom Scan:** Measurement grid: dx=4mm, dy=4mm, dz=2mm



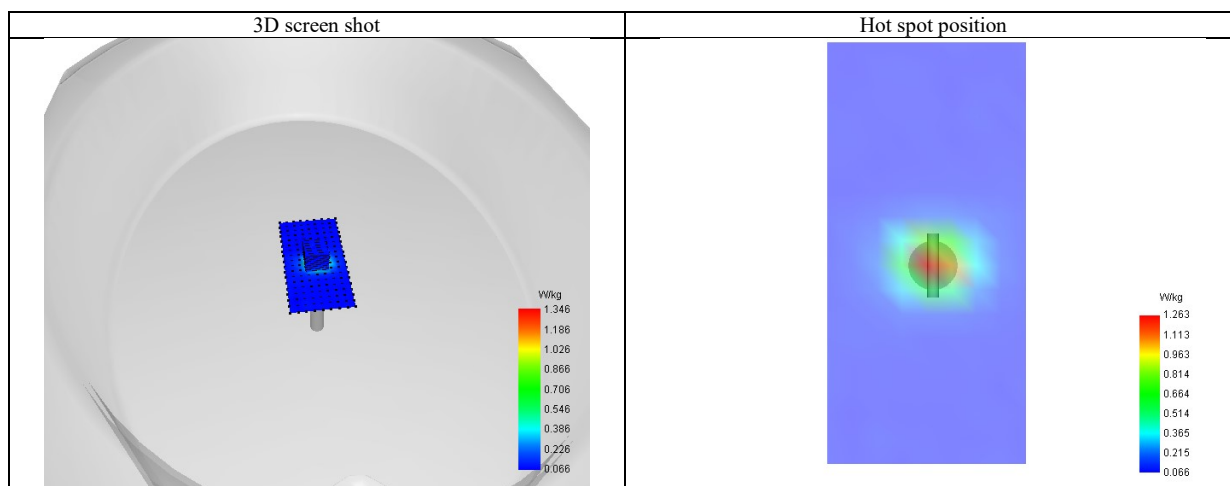
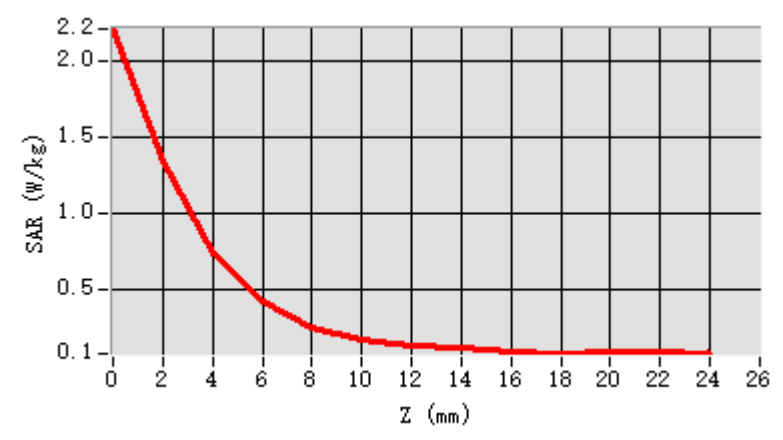
Maximum location: X=-1.00, Y=1.00 ; SAR Peak: 2.31 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.208     |
| SAR 1g (W/Kg)                                         | 0.751     |
| Variation (%)                                         | -3.800    |
| Horizontal validation criteria: minimum distance (mm) | 8.000000  |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 54.490569 |

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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

| Z (mm)     | 0.00  | 2.00  | 4.00  | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 2.187 | 1.322 | 0.725 | 0.417 | 0.230 | 0.159 | 0.128 | 0.102 | 0.085 | 0.065 | 0.079 | 0.083 |



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**Test Laboratory: AGC Lab**  
**System Check Head 5300 MHz**  
**DUT: Dipole 5000MHz Type: SID5000**

**Date: Dec. 05, 2025**

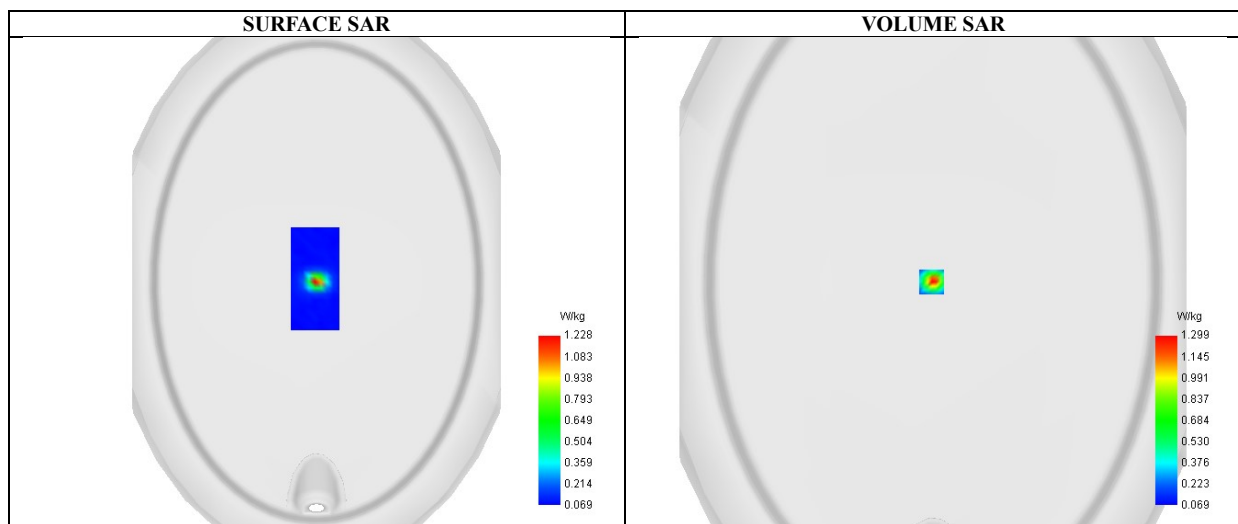
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.54  
Frequency: 5300 MHz; Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.71$  mho/m;  $\epsilon_r = 36.59$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=10dBm

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/System Check 5300 MHz Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/System Check 5300 MHz Head/Zoom Scan:** Measurement grid: dx=4mm, dy=4mm, dz=2mm



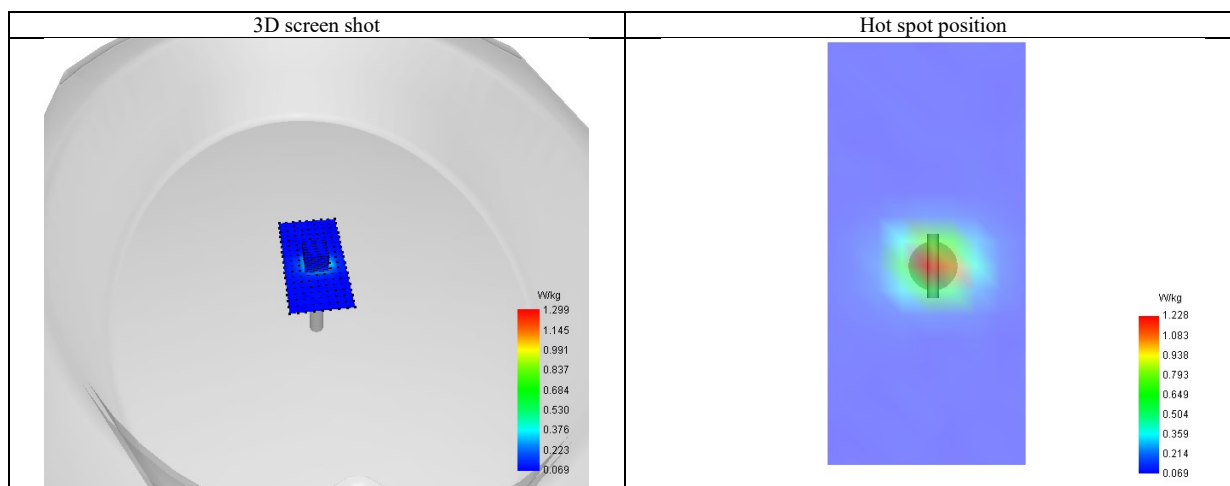
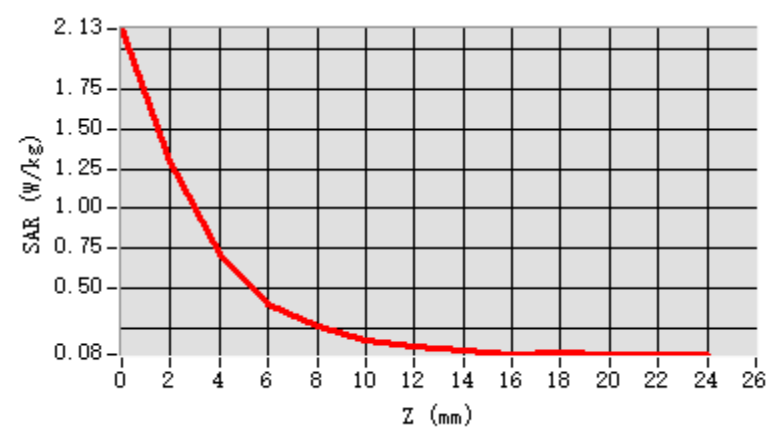
Maximum location: X=-1.00, Y=0.00 ; SAR Peak: 2.28 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.221     |
| SAR 1g (W/Kg)                                         | 0.735     |
| Variation (%)                                         | -2.570    |
| Horizontal validation criteria: minimum distance (mm) | 8.000000  |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 54.751056 |

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| Z (mm)     | 0.00  | 2.00  | 4.00  | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 2.128 | 1.286 | 0.704 | 0.381 | 0.252 | 0.166 | 0.132 | 0.108 | 0.078 | 0.089 | 0.060 | 0.072 |



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**Test Laboratory: AGC Lab**  
**System Check Head 5600 MHz**  
**DUT: Dipole 5000MHz Type: SID5000**

**Date: Dec. 06, 2025**

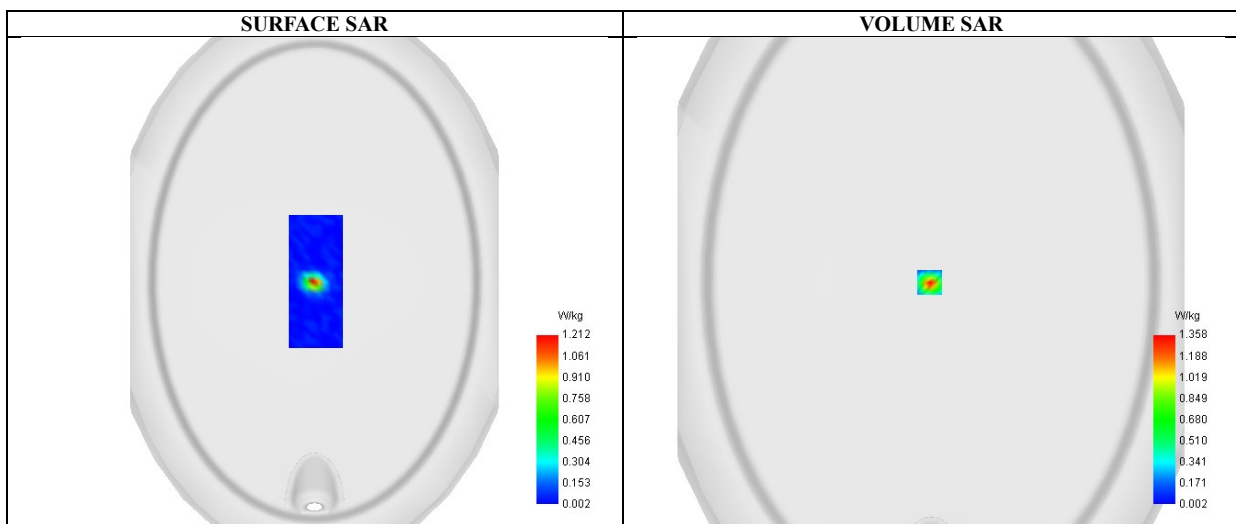
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.44  
Frequency: 5600 MHz; Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.18$  mho/m;  $\epsilon_r = 36.82$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=10dBm

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/System Check 5600 MHz Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/System Check 5600 MHz Head/Zoom Scan:** Measurement grid: dx=4mm, dy=4mm, dz=2mm



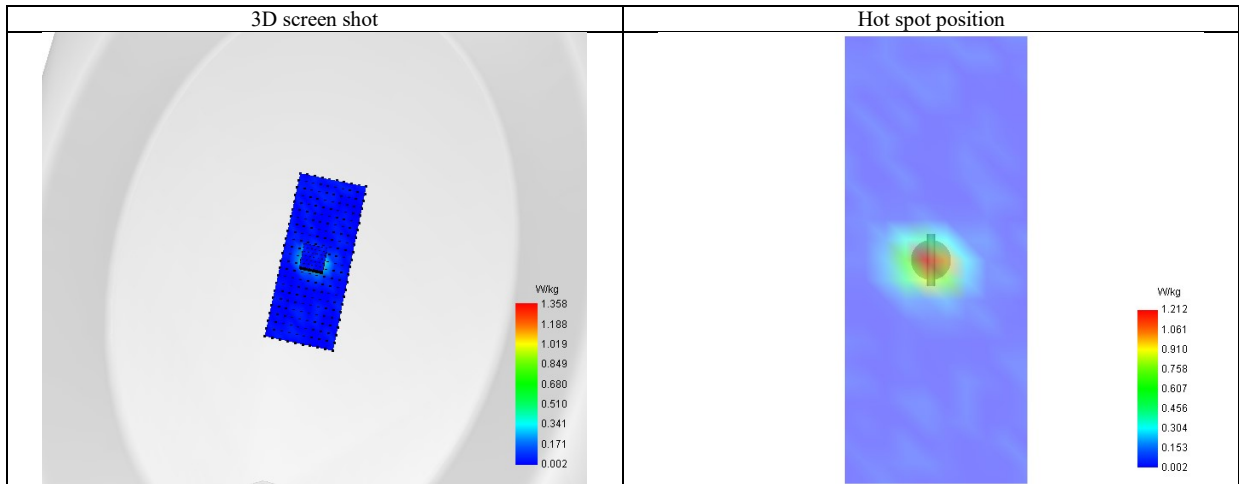
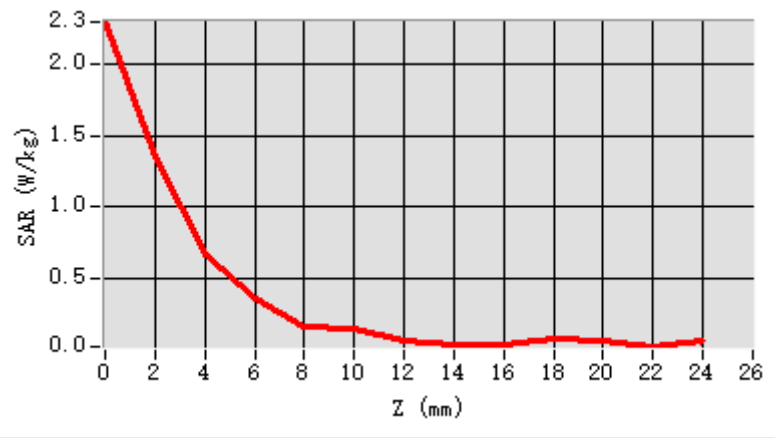
Maximum location: X=-1.00, Y=-1.00 ; SAR Peak: 2.62 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.253     |
| SAR 1g (W/Kg)                                         | 0.729     |
| Variation (%)                                         | 1.970     |
| Horizontal validation criteria: minimum distance (mm) | 8.000000  |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 49.387062 |

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| Z (mm)     | 0.00  | 2.00  | 4.00  | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 2.300 | 1.358 | 0.671 | 0.360 | 0.160 | 0.140 | 0.056 | 0.025 | 0.034 | 0.070 | 0.059 | 0.017 |



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**Test Laboratory: AGC Lab**  
**System Check Head 5800 MHz**  
**DUT: Dipole 5000MHz Type: SID5000**

**Date: Dec. 08, 2025**

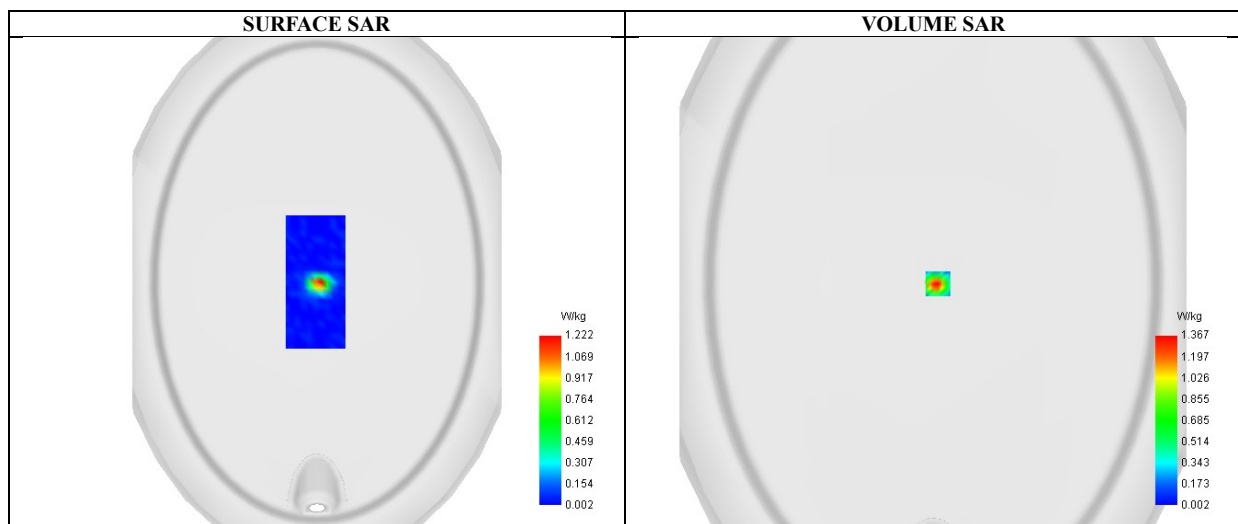
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.41  
Frequency: 5800 MHz; Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.36$  mho/m;  $\epsilon_r = 35.03$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=10dBm

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/System Check 5800 MHz Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/System Check 5800 MHz Head/Zoom Scan:** Measurement grid: dx=4mm, dy=4mm, dz=2mm



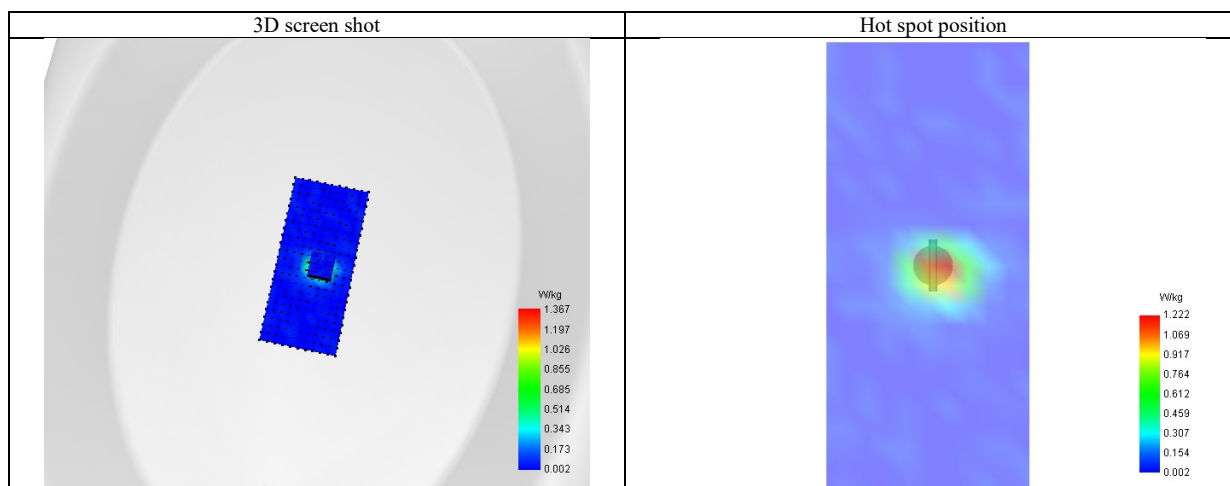
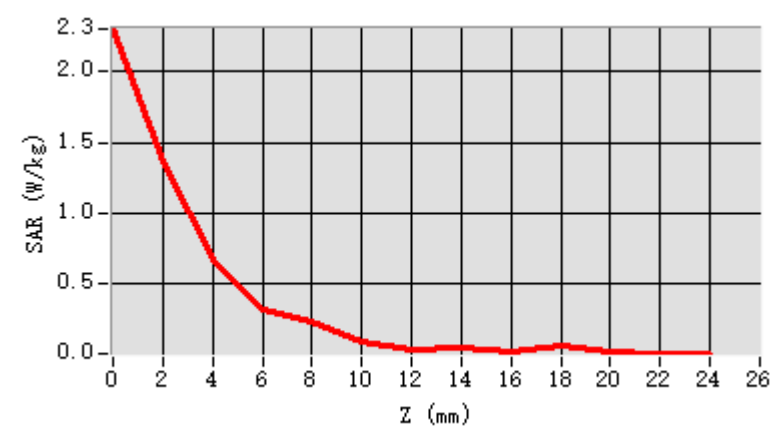
Maximum location: X=5.00, Y=-2.00 ; SAR Peak: 2.67 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.237     |
| SAR 1g (W/Kg)                                         | 0.740     |
| Variation (%)                                         | 1.700     |
| Horizontal validation criteria: minimum distance (mm) | 8.000000  |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 48.985882 |

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| Z (mm)     | 0.00  | 2.00  | 4.00  | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 2.303 | 1.367 | 0.670 | 0.329 | 0.241 | 0.089 | 0.036 | 0.060 | 0.023 | 0.063 | 0.027 | 0.012 |



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

## APPENDIX B. SAR MEASUREMENT DATA

2.4GHz 802.11b- Chain A

Test Laboratory: AGC Lab

802.11b Mid- Body-Worn- Back

DUT: Laptop Computer; Type: NM16DA

Date: Dec. 03, 2025

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.29;  
Frequency: 2437 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.79$  mho/m;  $\epsilon_r = 39.10$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section

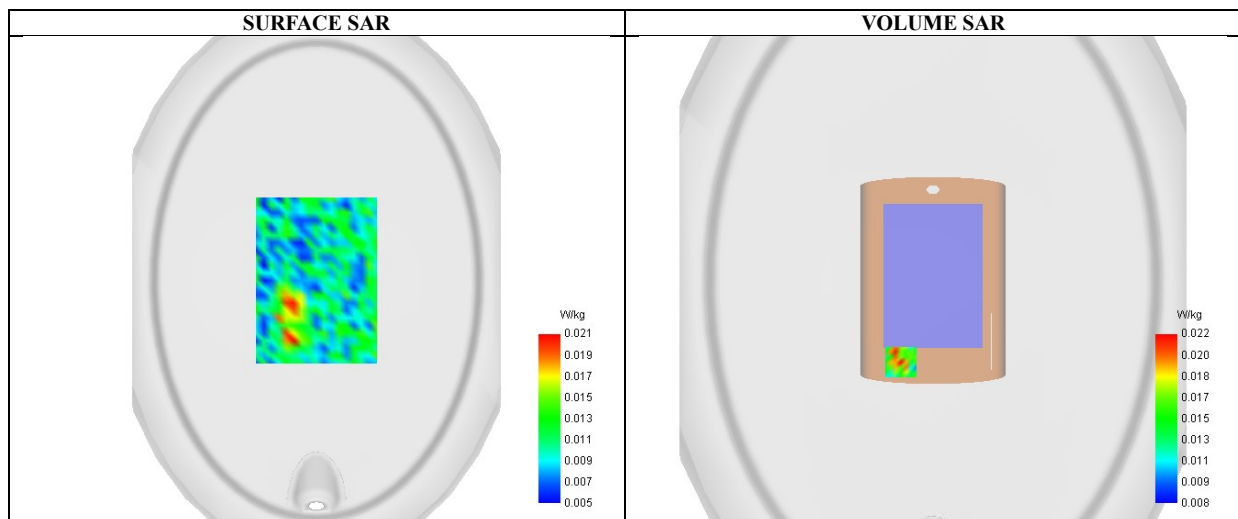
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/802.11b Mid- Body- Back /Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/802.11b Mid- Body- Back /Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm;

|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | surf_sam_plan.txt, h= 5.00 mm |
| ZoomScan        | 7x7x7,dx=5mm dy=5mm dz=5mm    |
| Phantom         | ELLI                          |
| Device Position | Body- Back                    |
| Band            | 2450MHz                       |
| Channels        | Middle                        |
| Signal          | Crest factor: 1.0             |



|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.013     |
| SAR 1g (W/Kg)                                         | 0.020     |
| Variation (%)                                         | -2.730    |
| Horizontal validation criteria: minimum distance (mm) | 15.811388 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 51.976921 |

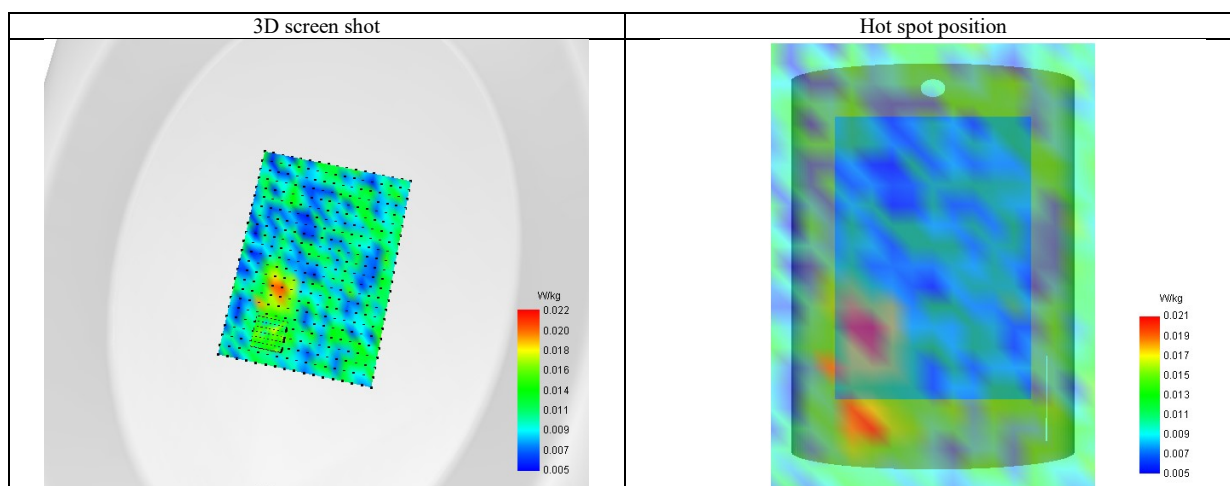
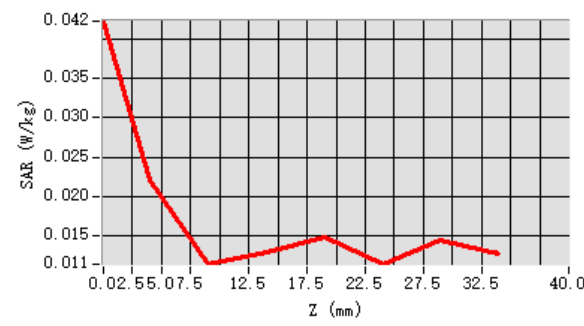
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|            |       |       |       |       |       |       |       |
|------------|-------|-------|-------|-------|-------|-------|-------|
| Z (mm)     | 0.00  | 4.00  | 9.00  | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 0.042 | 0.022 | 0.011 | 0.013 | 0.015 | 0.012 | 0.015 |



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2.4GHz 802.11b- Chain B  
Test Laboratory: AGC Lab  
802.11b Mid- Body-Worn- Back  
DUT: Laptop Computer; Type: NM16DA

Date: Dec. 03, 2025

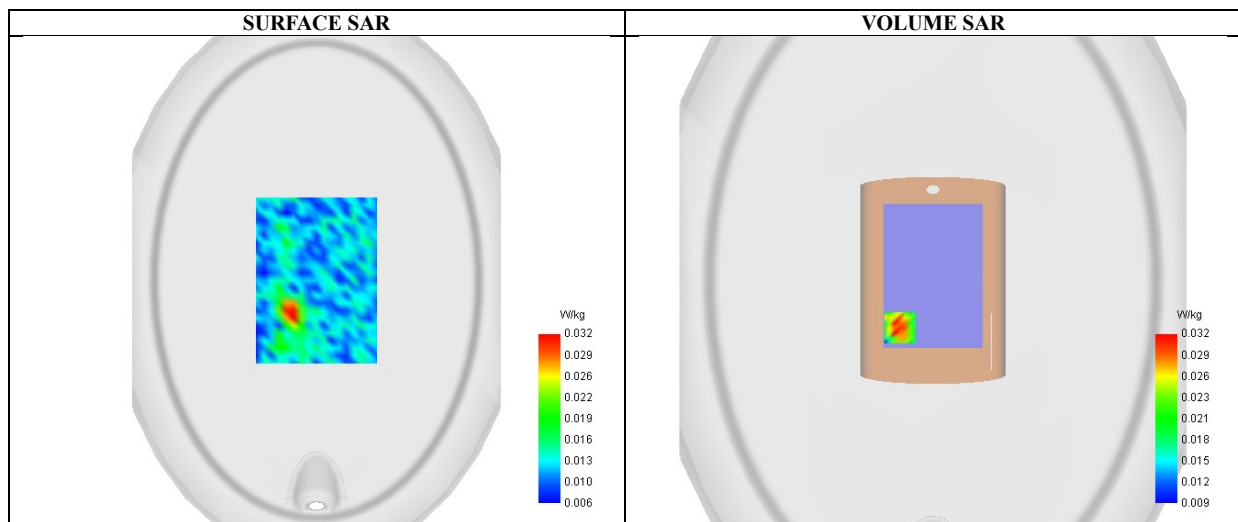
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.29;  
Frequency: 2437 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.79$  mho/m;  $\epsilon_r = 39.10$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11b Mid- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm  
Configuration/802.11b Mid- Body- Back /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | surf_sam_plan.txt, h= 5.00 mm |
| ZoomScan        | 7x7x7,dx=5mm dy=5mm dz=5mm    |
| Phantom         | ELLI                          |
| Device Position | Body- Back                    |
| Band            | 2450MHz                       |
| Channels        | Middle                        |
| Signal          | Crest factor: 1.0             |



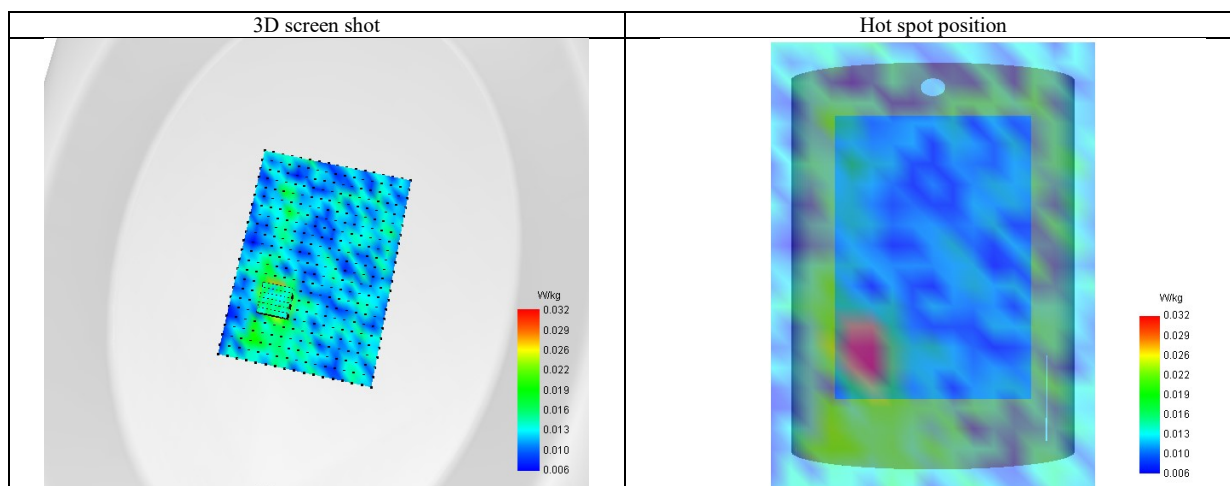
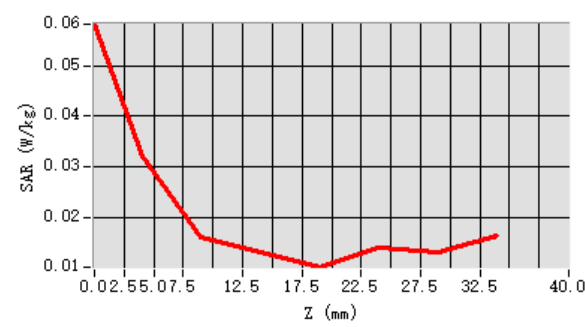
Maximum location: X=-32.00, Y=-46.00 ; SAR Peak: 0.05 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.018     |
| SAR 1g (W/Kg)                                         | 0.029     |
| Variation (%)                                         | -2.590    |
| Horizontal validation criteria: minimum distance (mm) | 14.142136 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 59.270008 |

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| Z (mm)     | 0.00  | 4.00  | 9.00  | 14.00 | 19.00 | 24.00 | 29.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 0.058 | 0.032 | 0.016 | 0.013 | 0.010 | 0.014 | 0.013 |



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2.4GHz 802.11ax40- Chain A  
Test Laboratory: AGC Lab  
802.11ax40 Low- Body-Worn- Back  
DUT: Laptop Computer; Type: NM16DA

Date: Dec. 03, 2025

Communication System: Wi-Fi; Communication System Band: 802.11ax40; Duty Cycle: 1:1; Conv.F=2.29;  
Frequency: 2422 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.76$  mho/m;  $\epsilon_r = 39.67$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section

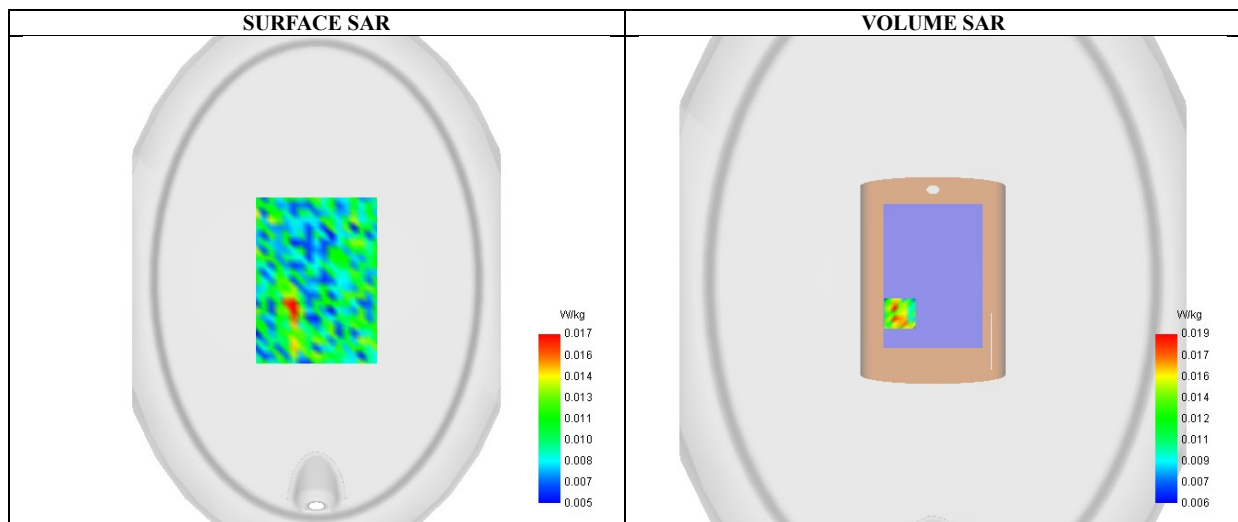
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11ax40 Low - Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/802.11ax40 Low - Body- Back /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | surf_sam_plan.txt, h= 5.00 mm |
| ZoomScan        | 7x7x7,dx=5mm dy=5mm dz=5mm    |
| Phantom         | ELLI                          |
| Device Position | Body- Back                    |
| Band            | 2450MHz                       |
| Channels        | Low                           |
| Signal          | Crest factor: 1.0             |



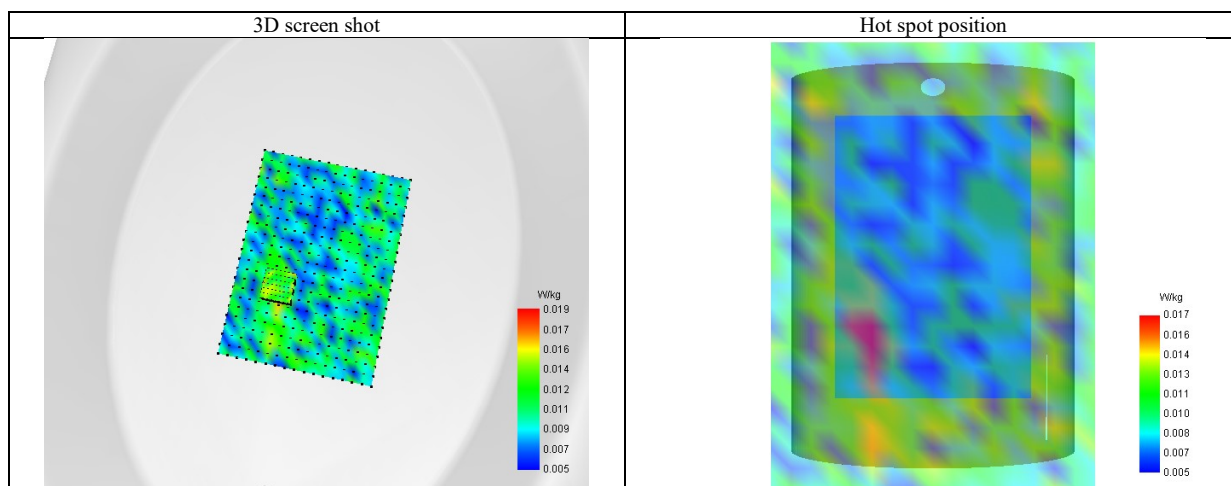
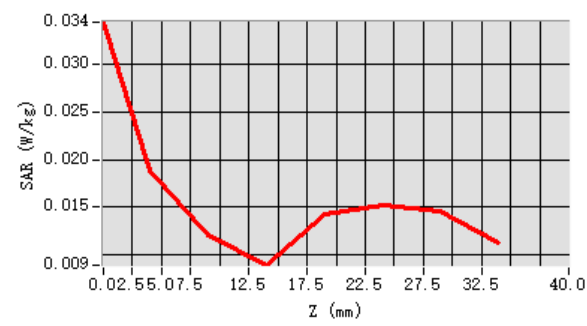
Maximum location: X=-32.00, Y=-32.00 ; SAR Peak: 0.04 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.011     |
| SAR 1g (W/Kg)                                         | 0.015     |
| Variation (%)                                         | -2.640    |
| Horizontal validation criteria: minimum distance (mm) | 14.142136 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 69.654155 |

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|            |       |       |       |       |       |       |       |
|------------|-------|-------|-------|-------|-------|-------|-------|
| Z (mm)     | 0.00  | 4.00  | 9.00  | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 0.034 | 0.019 | 0.012 | 0.009 | 0.014 | 0.015 | 0.015 |



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**2.4GHz 802.11ax40- Chain B**  
**Test Laboratory: AGC Lab**  
**802.11ax40 Low - Body-Worn- Back**  
**DUT: Laptop Computer; Type: NM16DA**

**Date: Dec. 03, 2025**

Communication System: Wi-Fi; Communication System Band: 802.11ax40; Duty Cycle: 1:1; Conv.F=2.29;  
Frequency: 2422 MHz; Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.76 \text{ mho/m}$ ;  $\epsilon_r = 39.67$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section

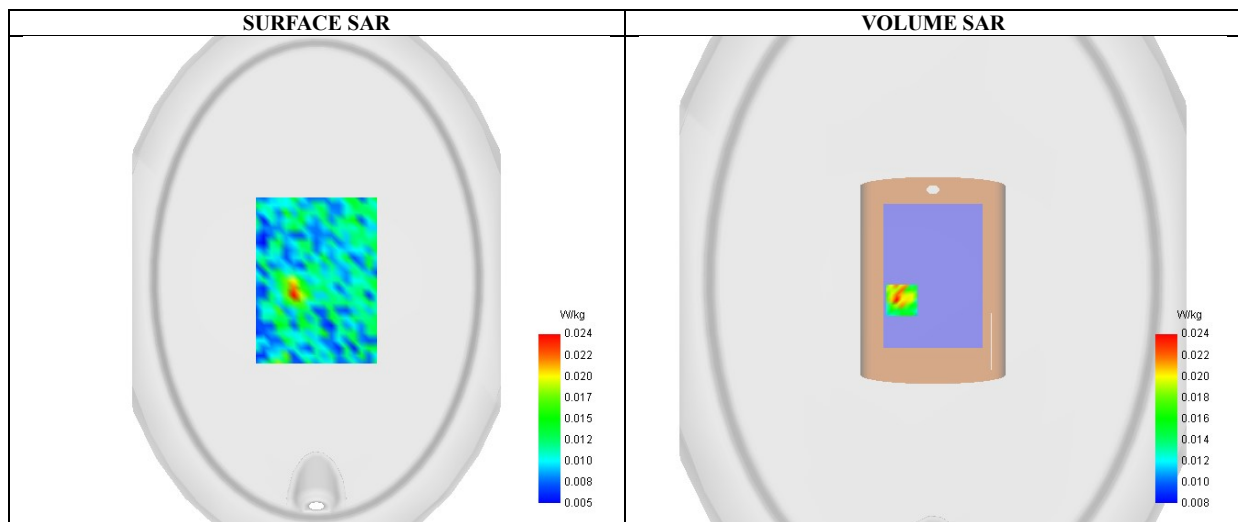
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/802.11ax40 Low - Body- Back /Area Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$

**Configuration/802.11ax40 Low - Body- Back /Zoom Scan:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ ;

|                        |                               |
|------------------------|-------------------------------|
| <b>Area Scan</b>       | surf_sam_plan.txt, h= 5.00 mm |
| <b>ZoomScan</b>        | 7x7x7,dx=5mm dy=5mm dz=5mm    |
| <b>Phantom</b>         | ELLI                          |
| <b>Device Position</b> | Body- Back                    |
| <b>Band</b>            | 2450MHz                       |
| <b>Channels</b>        | Low                           |
| <b>Signal</b>          | Crest factor: 1.0             |



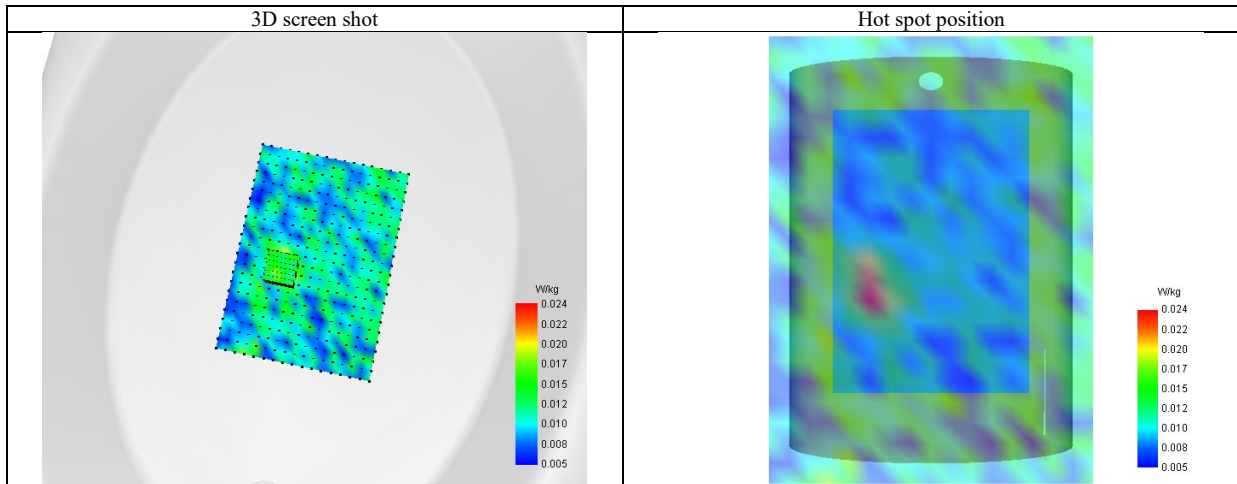
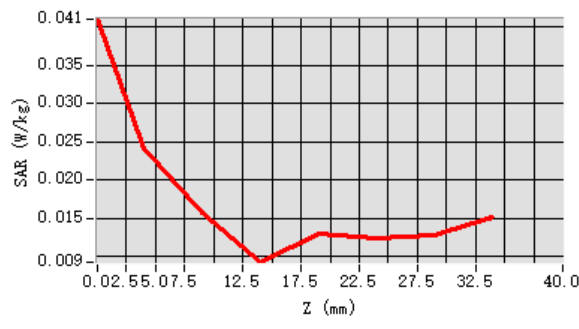
Maximum location: X=-30.00, Y=-19.00 ; SAR Peak: 0.04 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.014     |
| SAR 1g (W/Kg)                                         | 0.023     |
| Variation (%)                                         | -4.410    |
| Horizontal validation criteria: minimum distance (mm) | 18.027756 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 61.854826 |

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|            |       |       |       |       |       |       |       |
|------------|-------|-------|-------|-------|-------|-------|-------|
| Z (mm)     | 0.00  | 4.00  | 9.00  | 14.00 | 19.00 | 24.00 | 29.00 |
| SAR (W/Kg) | 0.041 | 0.024 | 0.016 | 0.009 | 0.013 | 0.012 | 0.013 |



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**5.2 GHz(U-NII-1) WIFI- 802.11a-Chain A**  
**Test Laboratory: AGC Lab**  
**802.11a CH40- Body-Worn- Back**  
**DUT: Laptop Computer; Type: NM16DA**

**Date: Dec. 04, 2025**

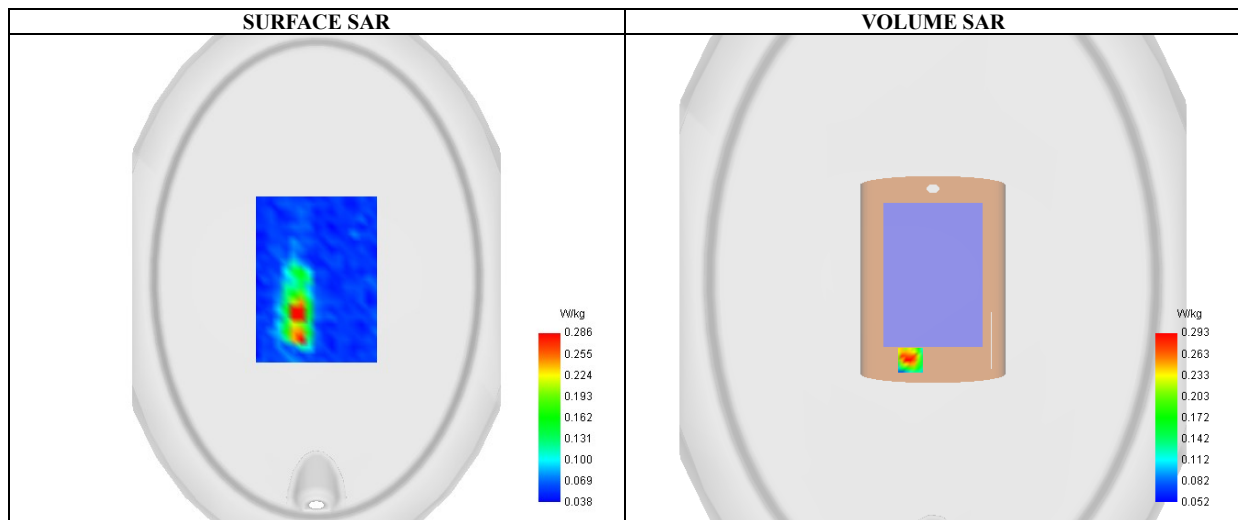
Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.54;  
Frequency: 5200MHz; Medium parameters used:  $f = 5250 \text{ MHz}$ ;  $\sigma = 4.55 \text{ mho/m}$ ;  $\epsilon_r = 35.60$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/802.11a CH40- Body- Back /Area Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$   
**Configuration/802.11a CH40- Body- Back /Zoom Scan:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| <b>Area Scan</b>       | sam_direct_droit2_surf8mm.txt                          |
| <b>ZoomScan</b>        | 7x7x12 $dx=4\text{mm}$ $dy=4\text{mm}$ $dz=2\text{mm}$ |
| <b>Phantom</b>         | ELLI                                                   |
| <b>Device Position</b> | Body- Back                                             |
| <b>Band</b>            | 5200MHz                                                |
| <b>Channels</b>        | CH40                                                   |
| <b>Signal</b>          | Crest factor: 1.0                                      |



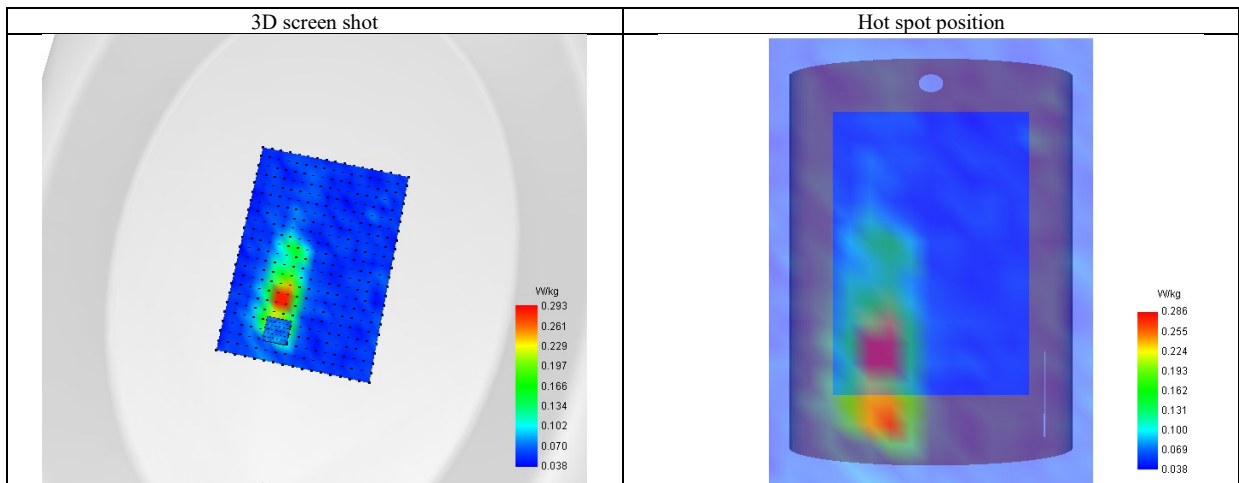
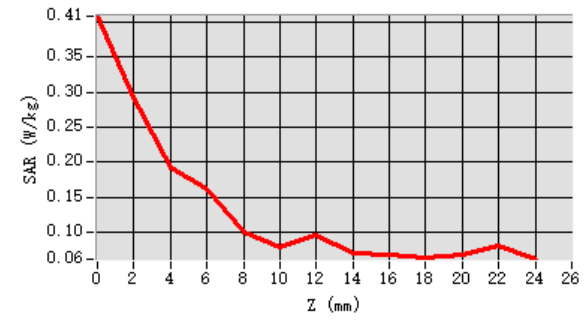
Maximum location:  $X=-22.00$ ,  $Y=-78.00$  ; SAR Peak: 0.41 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.107     |
| SAR 1g (W/Kg)                                         | 0.201     |
| Variation (%)                                         | 1.100     |
| Horizontal validation criteria: minimum distance (mm) | 8.944272  |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 72.172119 |

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| Z (mm)     | 0.00  | 2.00  | 4.00  | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 0.408 | 0.293 | 0.193 | 0.163 | 0.101 | 0.079 | 0.095 | 0.069 | 0.067 | 0.064 | 0.068 | 0.080 |



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**5.2 GHz(U-NII-1) WIFI- 802.11a-Chain B**  
**Test Laboratory: AGC Lab**  
**802.11a CH40- Body-Worn- Back**  
**DUT: Laptop Computer; Type: NM16DA**

**Date: Dec. 04, 2025**

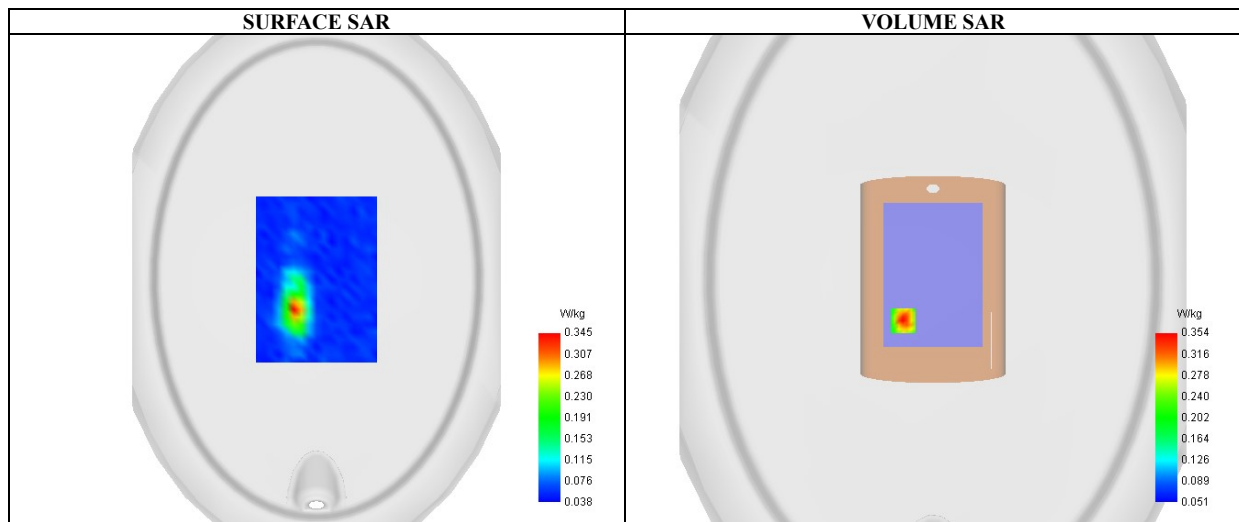
Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.54;  
Frequency: 5200MHz; Medium parameters used:  $f = 5250 \text{ MHz}$ ;  $\sigma = 4.55 \text{ mho/m}$ ;  $\epsilon_r = 35.60$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/802.11a CH40- Body- Back /Area Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$   
**Configuration/802.11a CH40- Body- Back /Zoom Scan:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| <b>Area Scan</b>       | sam_direct_droit2_surf8mm.txt                          |
| <b>ZoomScan</b>        | 7x7x12 $dx=4\text{mm}$ $dy=4\text{mm}$ $dz=2\text{mm}$ |
| <b>Phantom</b>         | ELLI                                                   |
| <b>Device Position</b> | Body- Back                                             |
| <b>Band</b>            | 5200MHz                                                |
| <b>Channels</b>        | CH40                                                   |
| <b>Signal</b>          | Crest factor: 1.0                                      |



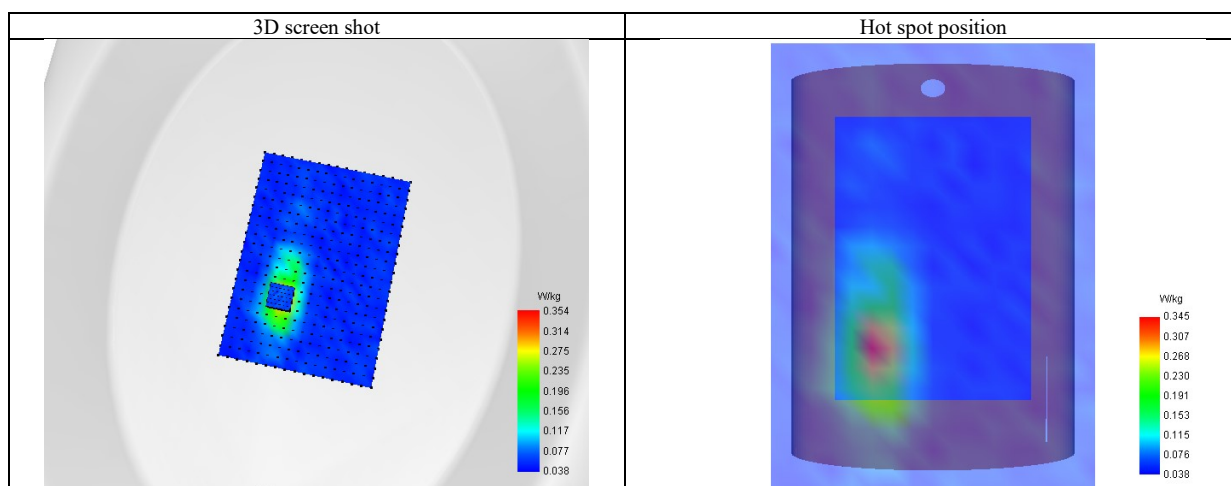
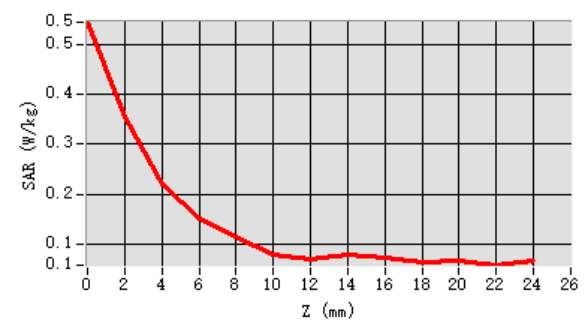
Maximum location:  $X=-29.00$ ,  $Y=-40.00$  ; SAR Peak: 0.58 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.124     |
| SAR 1g (W/Kg)                                         | 0.244     |
| Variation (%)                                         | -0.640    |
| Horizontal validation criteria: minimum distance (mm) | 14.422205 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 62.464616 |

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| Z (mm)     | 0.00  | 2.00  | 4.00  | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 0.545 | 0.354 | 0.221 | 0.150 | 0.113 | 0.079 | 0.069 | 0.079 | 0.071 | 0.062 | 0.066 | 0.057 |



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**5.2 GHz(U-NII-1) WIFI- 802.11x80-Chain A**  
**Test Laboratory: AGC Lab**  
**802.11ax80 CH42- Body-Worn- Back**  
**DUT: Laptop Computer; Type: NM16DA**

**Date: Dec. 04, 2025**

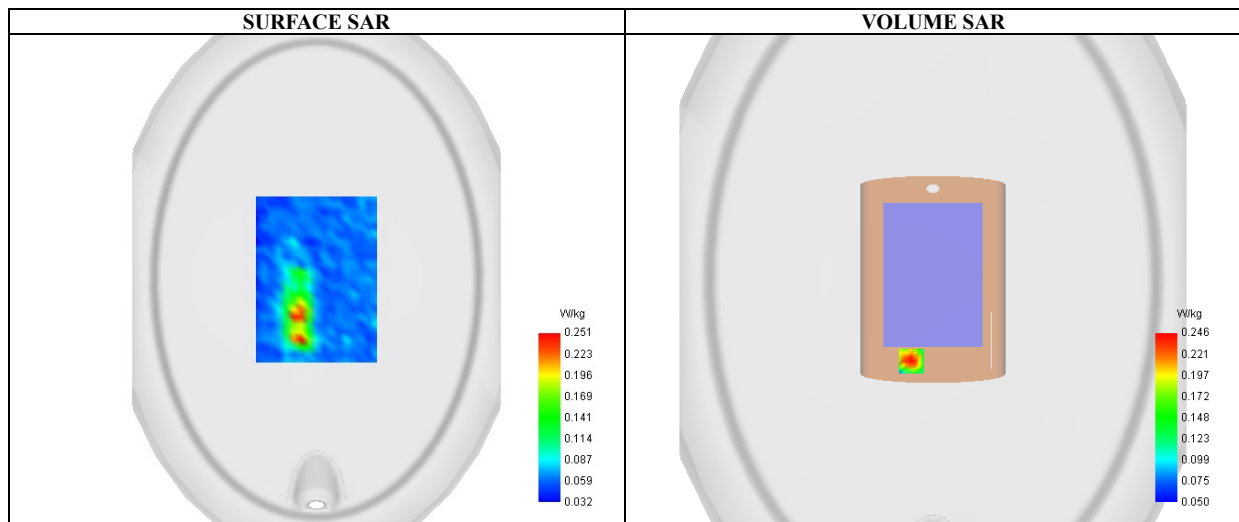
Communication System: Wi-Fi; Communication System Band: 802.11ax80; Duty Cycle: 1:1; Conv.F=1.54;  
Frequency: 5210MHz; Medium parameters used:  $f = 5250 \text{ MHz}$ ;  $\sigma = 4.60 \text{ mho/m}$ ;  $\epsilon_r = 34.33$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/802.11ax80 CH42- Body- Back /Area Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$   
**Configuration/802.11ax80 CH42- Body- Back /Zoom Scan:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| <b>Area Scan</b>       | sam_direct_droit2_surf8mm.txt                          |
| <b>ZoomScan</b>        | 7x7x12 $dx=4\text{mm}$ $dy=4\text{mm}$ $dz=2\text{mm}$ |
| <b>Phantom</b>         | ELLI                                                   |
| <b>Device Position</b> | Body- Back                                             |
| <b>Band</b>            | 5200MHz                                                |
| <b>Channels</b>        | CH42                                                   |
| <b>Signal</b>          | Crest factor: 1.0                                      |



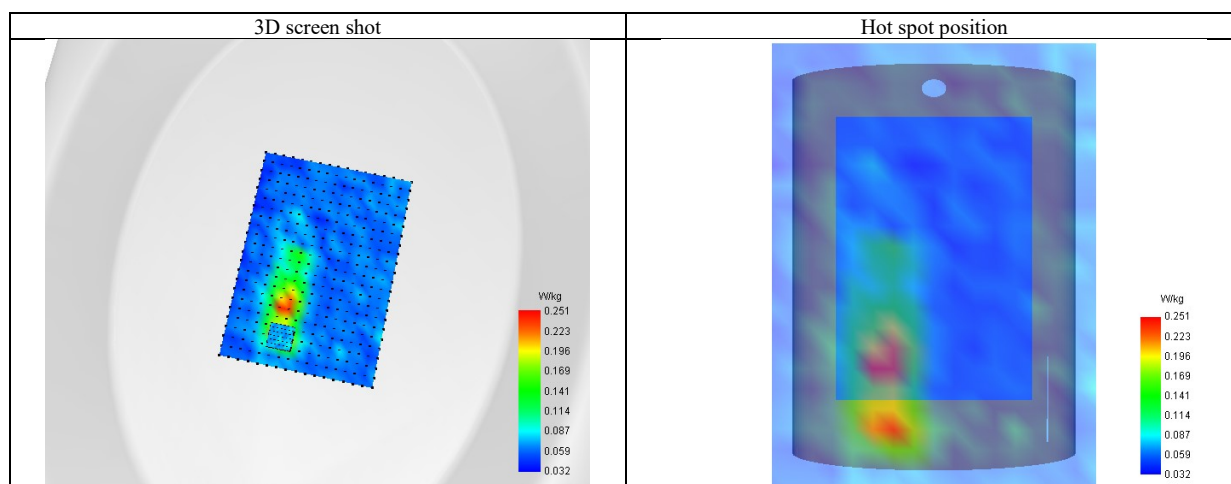
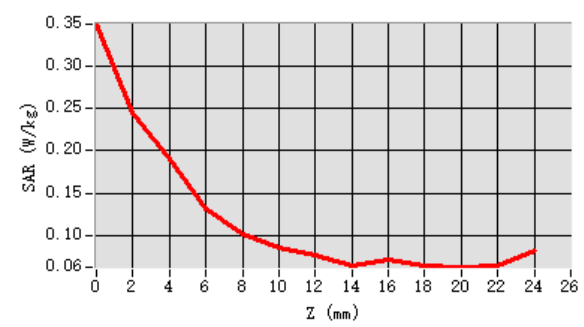
Maximum location:  $X=-21.00$ ,  $Y=-79.00$  ; SAR Peak: 0.42 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.091     |
| SAR 1g (W/Kg)                                         | 0.174     |
| Variation (%)                                         | 1.400     |
| Horizontal validation criteria: minimum distance (mm) | 12.649111 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 76.978915 |

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| Z (mm)     | 0.00  | 2.00  | 4.00  | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 0.349 | 0.246 | 0.189 | 0.131 | 0.102 | 0.084 | 0.077 | 0.065 | 0.071 | 0.064 | 0.062 | 0.063 |



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**5.2 GHz(U-NII-1) WIFI- 802.11ax80-Chain B**  
**Test Laboratory: AGC Lab**  
**802.11ax80 CH42- Body-Worn- Back**  
**DUT: Laptop Computer; Type: NM16DA**

**Date: Dec. 04, 2025**

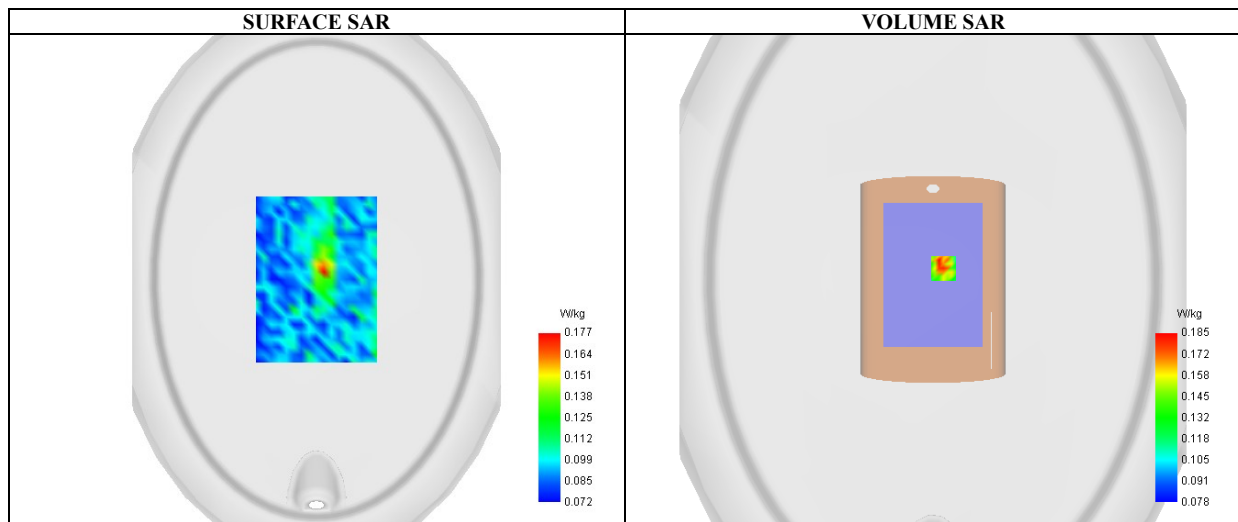
Communication System: Wi-Fi; Communication System Band: 802.11ax80; Duty Cycle: 1:1; Conv.F=1.54;  
Frequency: 5210MHz; Medium parameters used:  $f = 5250 \text{ MHz}$ ;  $\sigma = 4.60 \text{ mho/m}$ ;  $\epsilon_r = 34.33$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/802.11ax80 CH42- Body- Back /Area Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$   
**Configuration/802.11ax80 CH42- Body- Back /Zoom Scan:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| <b>Area Scan</b>       | sam_direct_droit2_surf8mm.txt                          |
| <b>ZoomScan</b>        | 7x7x12 $dx=4\text{mm}$ $dy=4\text{mm}$ $dz=2\text{mm}$ |
| <b>Phantom</b>         | ELLI                                                   |
| <b>Device Position</b> | Body- Back                                             |
| <b>Band</b>            | 5200MHz                                                |
| <b>Channels</b>        | CH42                                                   |
| <b>Signal</b>          | Crest factor: 1.0                                      |



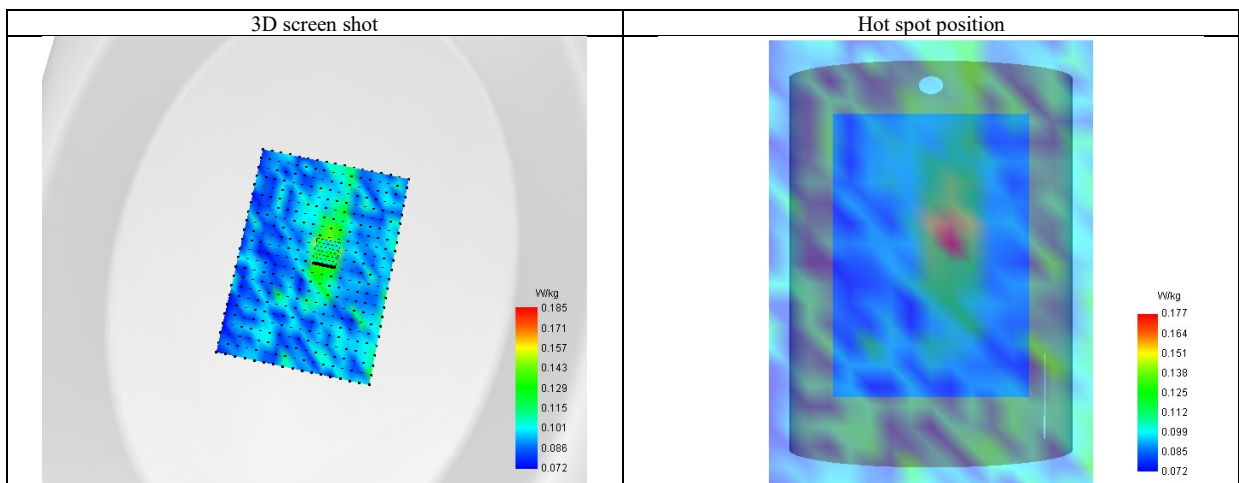
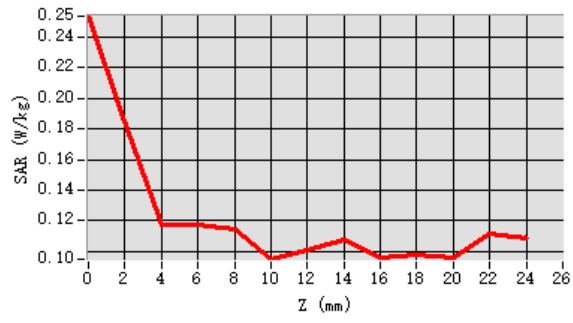
Maximum location:  $X=10.00$ ,  $Y=11.00$  ; SAR Peak: 0.28 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.089     |
| SAR 1g (W/Kg)                                         | 0.142     |
| Variation (%)                                         | 2.170     |
| Horizontal validation criteria: minimum distance (mm) | 11.625395 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 77.664005 |

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| Z (mm)     | 0.00  | 2.00  | 4.00  | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 0.253 | 0.185 | 0.117 | 0.117 | 0.114 | 0.095 | 0.101 | 0.108 | 0.096 | 0.098 | 0.096 | 0.111 |



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**5.3GHz (U-NII-2A) WIFI-802.11a-Chain A**  
**Test Laboratory: AGC Lab**  
**802.11a CH60- Body-Worn- Back**  
**DUT: Laptop Computer; Type: NM16DA**

**Date: Dec. 05, 2025**

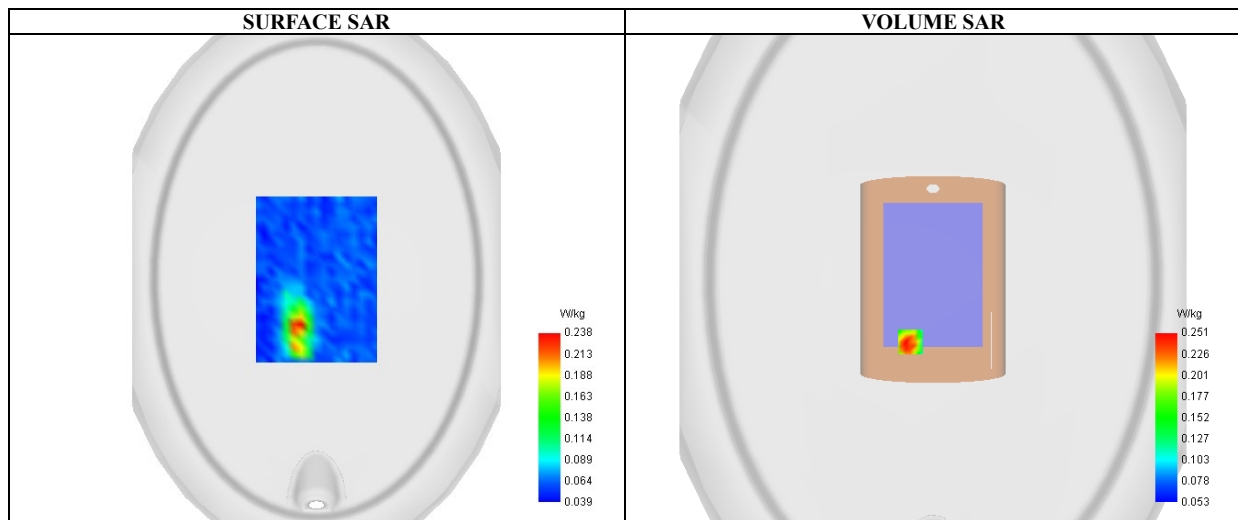
Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.54;  
Frequency: 5300MHz; Medium parameters used:  $f = 5250 \text{ MHz}$ ;  $\sigma = 4.71 \text{ mho/m}$ ;  $\epsilon_r = 36.59$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/802.11a CH60- Body- Back /Area Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$   
**Configuration/802.11a CH60- Body- Back /Zoom Scan:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| <b>Area Scan</b>       | sam_direct_droit2_surf8mm.txt                          |
| <b>ZoomScan</b>        | 7x7x12 $dx=4\text{mm}$ $dy=4\text{mm}$ $dz=2\text{mm}$ |
| <b>Phantom</b>         | ELLI                                                   |
| <b>Device Position</b> | Body- Back                                             |
| <b>Band</b>            | 5300MHz                                                |
| <b>Channels</b>        | CH60                                                   |
| <b>Signal</b>          | Crest factor: 1.0                                      |



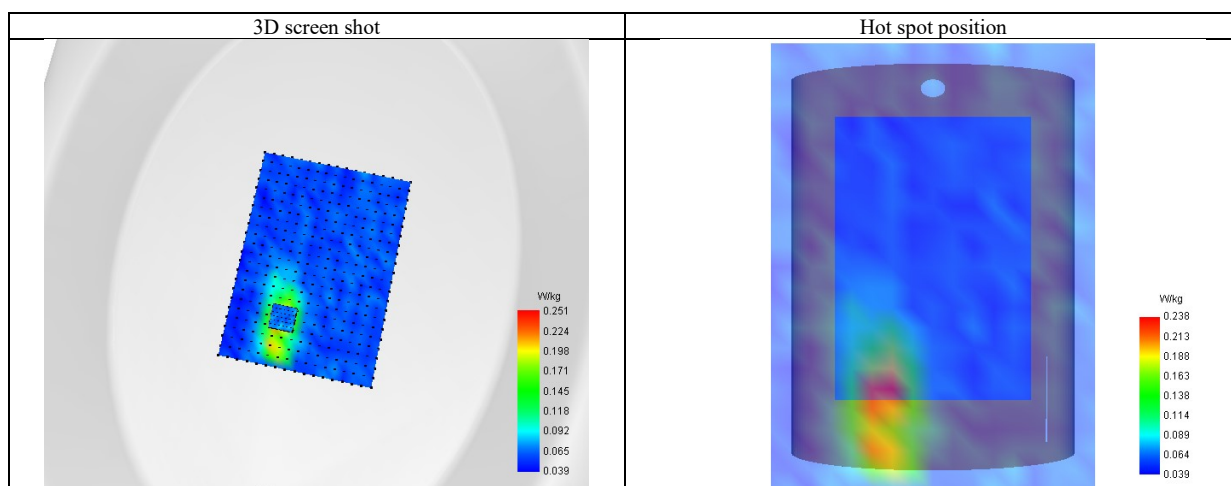
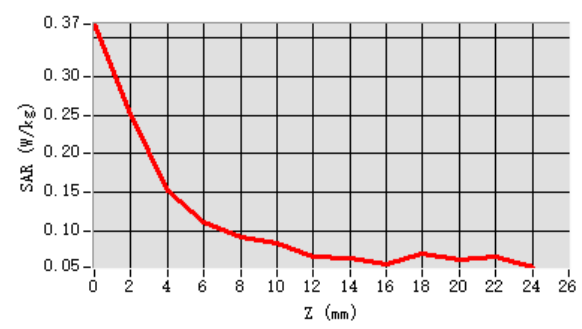
Maximum location:  $X=-22.00$ ,  $Y=-60.00$  ; SAR Peak: 0.52 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.093     |
| SAR 1g (W/Kg)                                         | 0.177     |
| Variation (%)                                         | 4.750     |
| Horizontal validation criteria: minimum distance (mm) | 16.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 53.704374 |

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| Z (mm)     | 0.00  | 2.00  | 4.00  | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 0.367 | 0.251 | 0.152 | 0.111 | 0.092 | 0.084 | 0.067 | 0.065 | 0.058 | 0.070 | 0.063 | 0.066 |



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**5.3GHz (U-NII-2A) WIFI-802.11a-Chain B**  
**Test Laboratory: AGC Lab**  
**802.11a CH60- Body-Worn- Back**  
**DUT: Laptop Computer; Type: NM16DA**

**Date: Dec. 05, 2025**

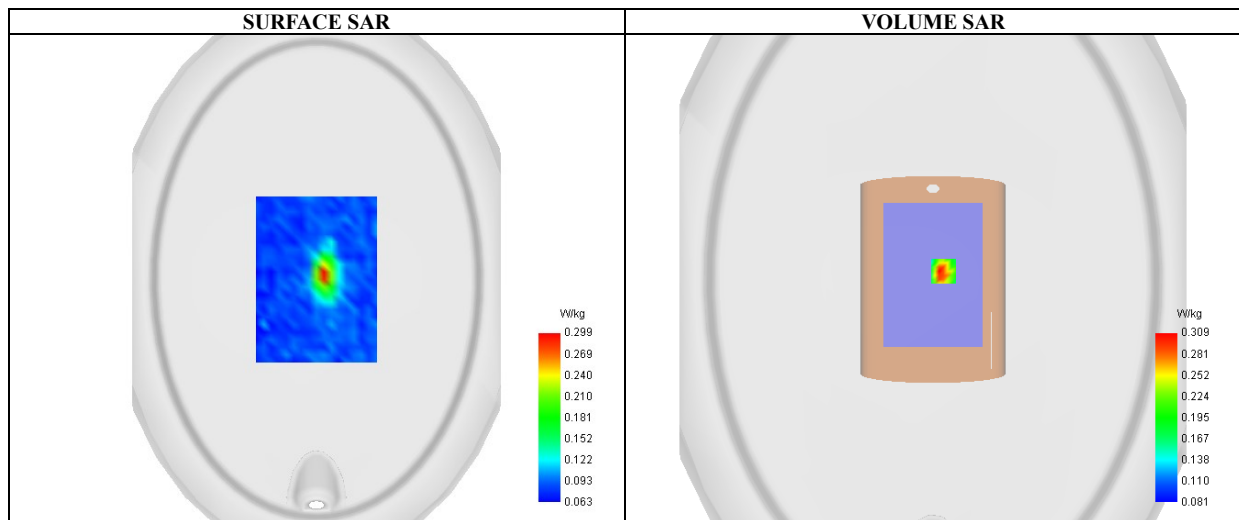
Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.54;  
Frequency: 5300MHz; Medium parameters used:  $f = 5250 \text{ MHz}$ ;  $\sigma = 4.71 \text{ mho/m}$ ;  $\epsilon_r = 36.59$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/802.11a CH60- Body- Back /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/802.11a CH60- Body- Back /Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm

|                        |                               |
|------------------------|-------------------------------|
| <b>Area Scan</b>       | sam_direct_droit2_surf8mm.txt |
| <b>ZoomScan</b>        | 7x7x12 dx=4mm dy=4mm dz=2mm   |
| <b>Phantom</b>         | ELLI                          |
| <b>Device Position</b> | Body- Back                    |
| <b>Band</b>            | 5300MHz                       |
| <b>Channels</b>        | CH60                          |
| <b>Signal</b>          | Crest factor: 1.0             |



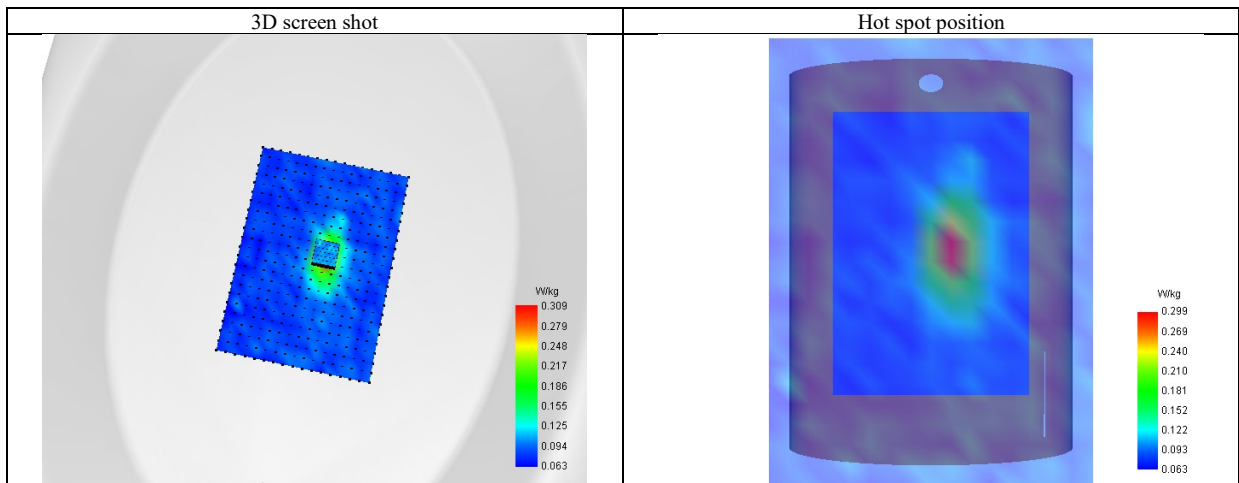
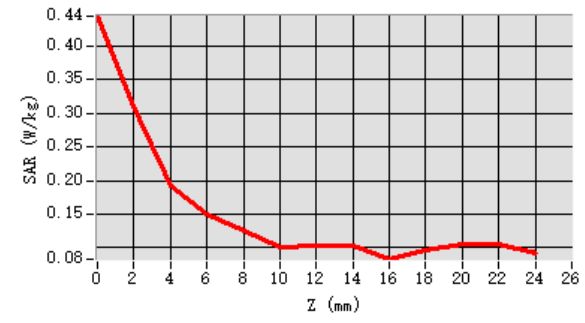
Maximum location: X=10.00, Y=8.00 ; SAR Peak: 0.46 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.110     |
| SAR 1g (W/Kg)                                         | 0.204     |
| Variation (%)                                         | -1.060    |
| Horizontal validation criteria: minimum distance (mm) | 11.313708 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 73.412239 |

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|            |       |       |       |       |       |       |       |       |       |       |       |       |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 0.00  | 2.00  | 4.00  | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 |
| SAR (W/Kg) | 0.444 | 0.309 | 0.193 | 0.151 | 0.125 | 0.100 | 0.104 | 0.102 | 0.083 | 0.096 | 0.105 | 0.106 |



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**5.3GHz (U-NII-2A) WIFI-802.11ax40-Chain A**  
**Test Laboratory: AGC Lab**  
**802.11ax40 CH54- Body-Worn- Back**  
**DUT: Laptop Computer; Type: NM16DA**

**Date: Dec. 05, 2025**

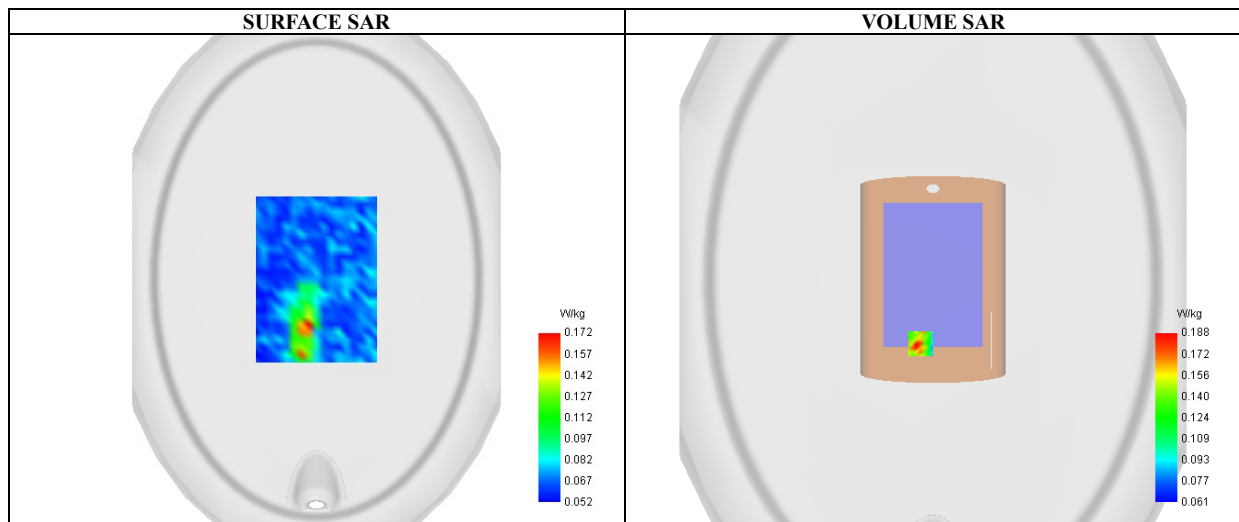
Communication System: Wi-Fi; Communication System Band: 802.11ax40; Duty Cycle: 1:1; Conv.F=1.54;  
Frequency: 5270MHz; Medium parameters used:  $f = 5250 \text{ MHz}$ ;  $\sigma = 4.66 \text{ mho/m}$ ;  $\epsilon_r = 37.13$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/802.11ax40 CH54- Body- Back /Area Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$   
**Configuration/802.11ax40 CH54- Body- Back /Zoom Scan:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| <b>Area Scan</b>       | sam_direct_droit2_surf8mm.txt                          |
| <b>ZoomScan</b>        | 7x7x12 $dx=4\text{mm}$ $dy=4\text{mm}$ $dz=2\text{mm}$ |
| <b>Phantom</b>         | ELLI                                                   |
| <b>Device Position</b> | Body- Back                                             |
| <b>Band</b>            | 5300MHz                                                |
| <b>Channels</b>        | CH54                                                   |
| <b>Signal</b>          | Crest factor: 1.0                                      |



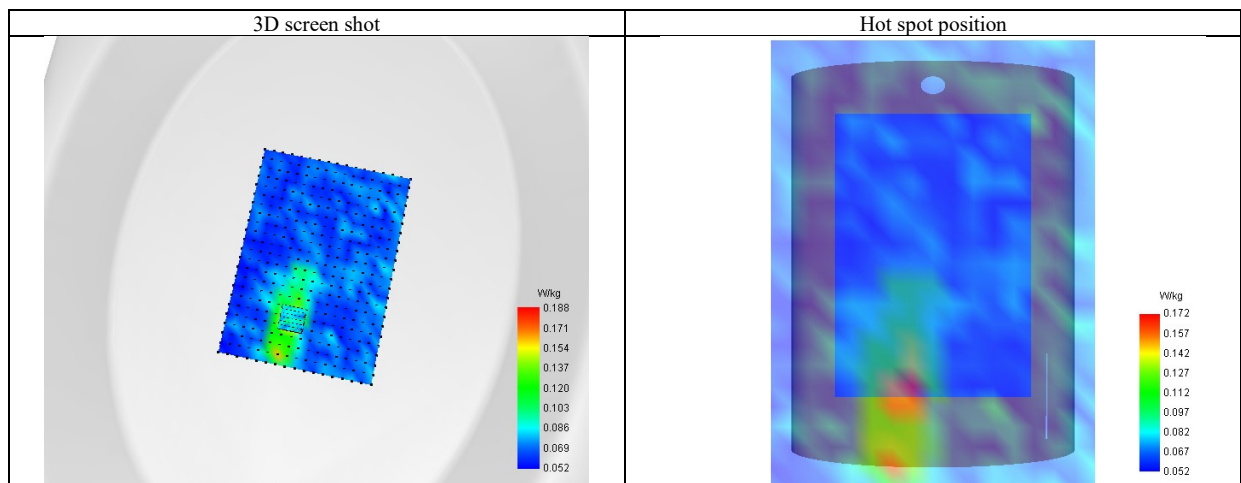
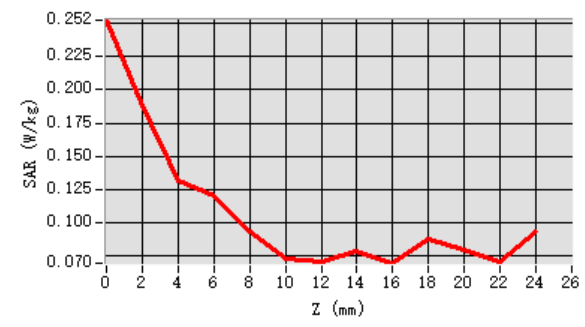
Maximum location:  $X=-12.00$ ,  $Y=-62.00$  ; SAR Peak: 0.40 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.083     |
| SAR 1g (W/Kg)                                         | 0.140     |
| Variation (%)                                         | -0.030    |
| Horizontal validation criteria: minimum distance (mm) | 16.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 59.657237 |

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| Z (mm)     | 0.00  | 2.00  | 4.00  | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 0.252 | 0.188 | 0.131 | 0.121 | 0.094 | 0.073 | 0.071 | 0.078 | 0.070 | 0.087 | 0.079 | 0.071 |



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**5.3GHz (U-NII-2A) WIFI-802.11ax40-Chain B**  
**Test Laboratory: AGC Lab**  
**802.11ax40 CH54- Body-Worn- Back**  
**DUT: Laptop Computer; Type: NM16DA**

**Date: Dec. 05, 2025**

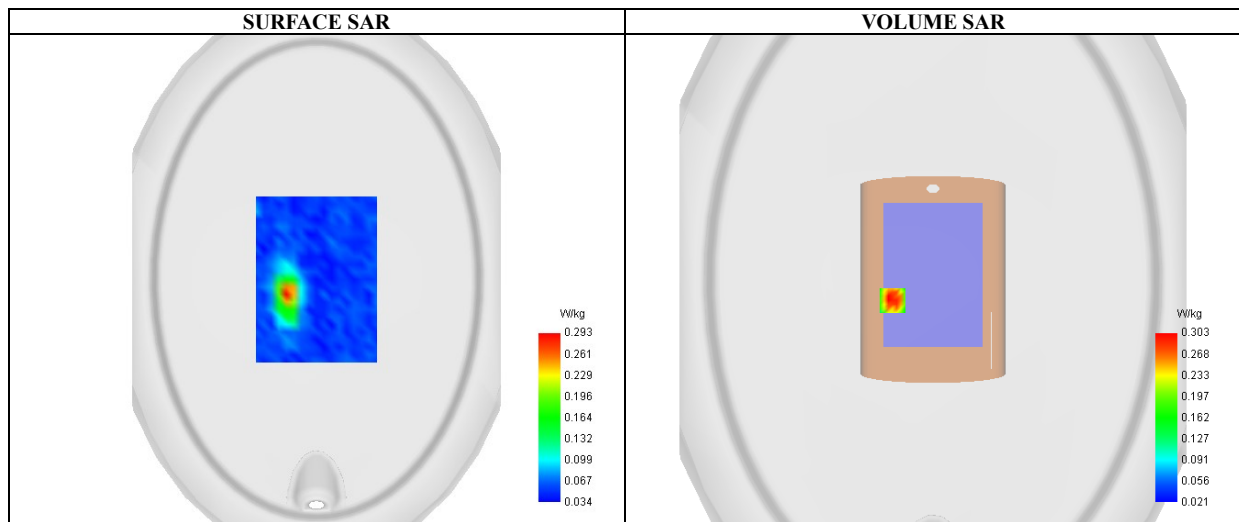
Communication System: Wi-Fi; Communication System Band: 802.11ax40; Duty Cycle: 1:1; Conv.F=1.54;  
Frequency: 5270MHz; Medium parameters used:  $f = 5250 \text{ MHz}$ ;  $\sigma = 4.66 \text{ mho/m}$ ;  $\epsilon_r = 37.13$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/802.11ax40 CH54- Body- Back /Area Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$   
**Configuration/802.11ax40 CH54- Body- Back /Zoom Scan:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| <b>Area Scan</b>       | sam_direct_droit2_surf8mm.txt                          |
| <b>ZoomScan</b>        | 7x7x12 $dx=4\text{mm}$ $dy=4\text{mm}$ $dz=2\text{mm}$ |
| <b>Phantom</b>         | ELLI                                                   |
| <b>Device Position</b> | Body- Back                                             |
| <b>Band</b>            | 5300MHz                                                |
| <b>Channels</b>        | CH54                                                   |
| <b>Signal</b>          | Crest factor: 1.0                                      |



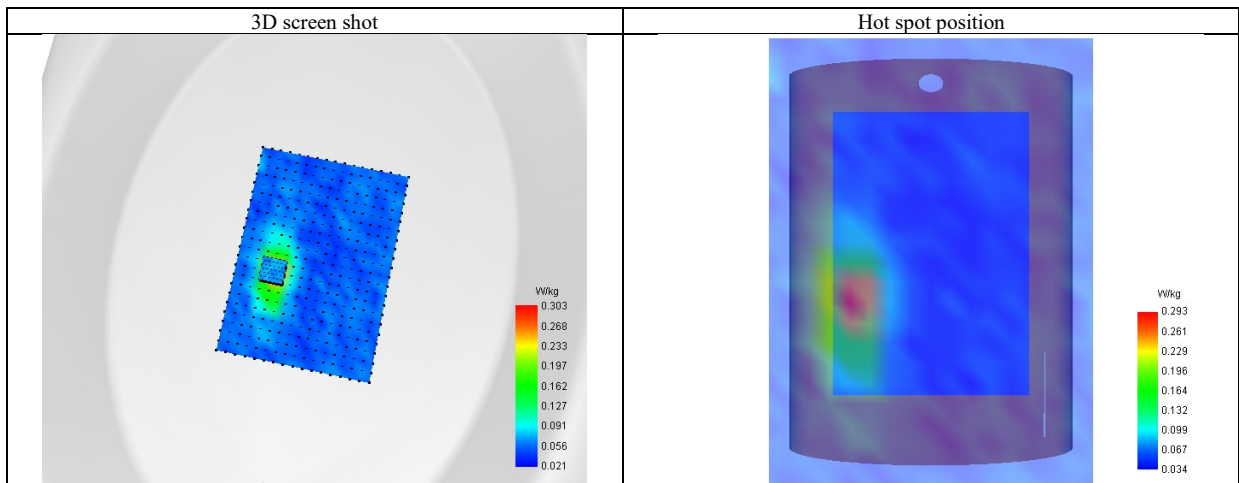
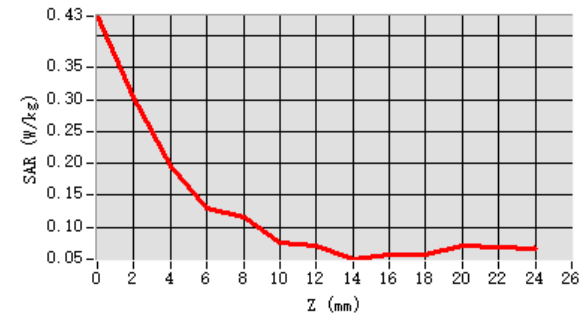
Maximum location:  $X=-39.00$ ,  $Y=-20.00$  ; SAR Peak: 0.51 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.100     |
| SAR 1g (W/Kg)                                         | 0.204     |
| Variation (%)                                         | -3.980    |
| Horizontal validation criteria: minimum distance (mm) | 14.422205 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 63.008728 |

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Tel: +86-755 2523 4088 E-mail: [agc@agccert.com](mailto:agc@agccert.com) Web: <http://www.agccert.com/>

| Z (mm)     | 0.00  | 2.00  | 4.00  | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 0.431 | 0.303 | 0.196 | 0.129 | 0.115 | 0.077 | 0.071 | 0.049 | 0.056 | 0.056 | 0.071 | 0.069 |



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**5.6GHz (U-NII-2C) WIFI-802.11a-Chain A**  
**Test Laboratory: AGC Lab**  
**802.11a CH140- Body-Worn- Back**  
**DUT: Laptop Computer; Type: NM16DA**

**Date: Dec. 06, 2025**

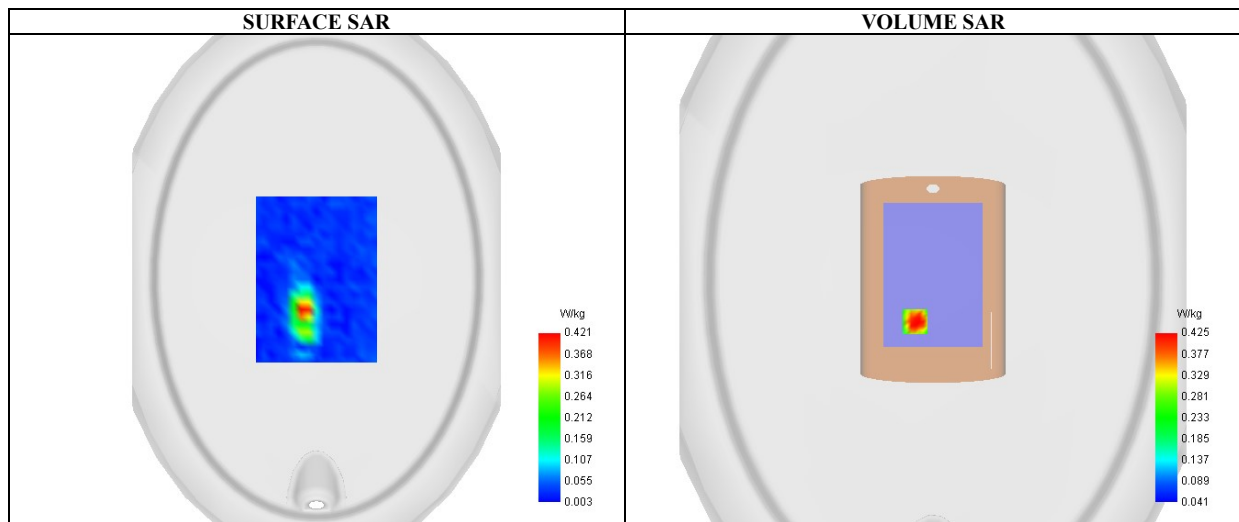
Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.44;  
Frequency: 5700MHz; Medium parameters used:  $f = 5600 \text{ MHz}$ ;  $\sigma = 5.21 \text{ mho/m}$ ;  $\epsilon_r = 35.36$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/802.11a CH140- Body- Back /Area Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$   
**Configuration/802.11a CH140- Body- Back /Zoom Scan:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| <b>Area Scan</b>       | sam_direct_droit2_surf8mm.txt                          |
| <b>ZoomScan</b>        | 7x7x12 $dx=4\text{mm}$ $dy=4\text{mm}$ $dz=2\text{mm}$ |
| <b>Phantom</b>         | ELLI                                                   |
| <b>Device Position</b> | Body- Back                                             |
| <b>Band</b>            | 5600MHz                                                |
| <b>Channels</b>        | CH140                                                  |
| <b>Signal</b>          | Crest factor: 1.0                                      |



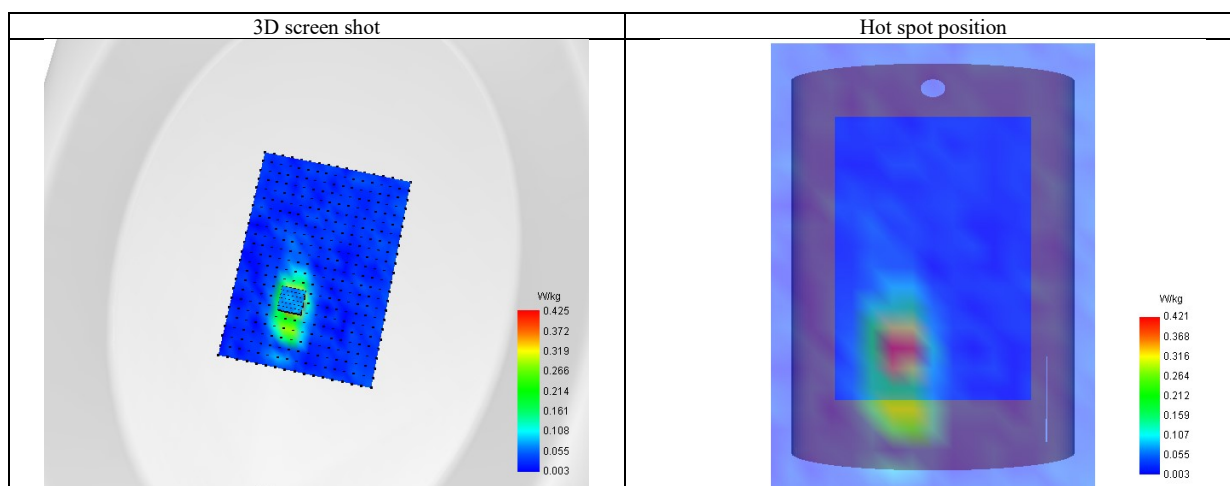
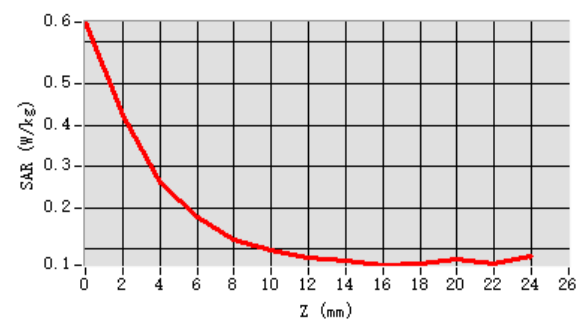
Maximum location:  $X=-17.00$ ,  $Y=-41.00$  ; SAR Peak: 0.77 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.123     |
| SAR 1g (W/Kg)                                         | 0.272     |
| Variation (%)                                         | 1.200     |
| Horizontal validation criteria: minimum distance (mm) | 14.422205 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 64.639145 |

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| Z (mm)     | 0.00  | 2.00  | 4.00  | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 0.648 | 0.425 | 0.262 | 0.179 | 0.122 | 0.097 | 0.081 | 0.072 | 0.062 | 0.065 | 0.075 | 0.064 |



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**5.6GHz (U-NII-2C) WIFI-802.11a-Chain B**  
**Test Laboratory: AGC Lab**  
**802.11a CH116- Body-Worn- Back**  
**DUT: Laptop Computer; Type: NM16DA**

**Date: Dec. 06, 2025**

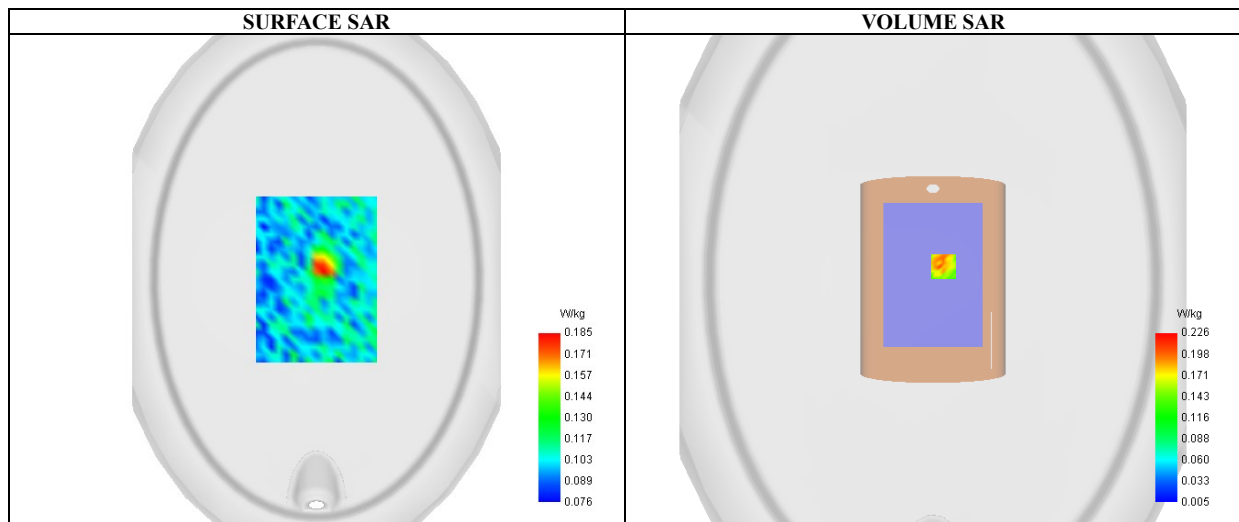
Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.44;  
Frequency: 5580MHz; Medium parameters used:  $f = 5600 \text{ MHz}$ ;  $\sigma = 5.15 \text{ mho/m}$ ;  $\epsilon_r = 37.01$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/802.11a CH116- Body- Back /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/802.11a CH116- Body- Back /Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm

|                        |                               |
|------------------------|-------------------------------|
| <b>Area Scan</b>       | sam_direct_droit2_surf8mm.txt |
| <b>ZoomScan</b>        | 7x7x12 dx=4mm dy=4mm dz=2mm   |
| <b>Phantom</b>         | ELLI                          |
| <b>Device Position</b> | Body- Back                    |
| <b>Band</b>            | 5600MHz                       |
| <b>Channels</b>        | CH116                         |
| <b>Signal</b>          | Crest factor: 1.0             |

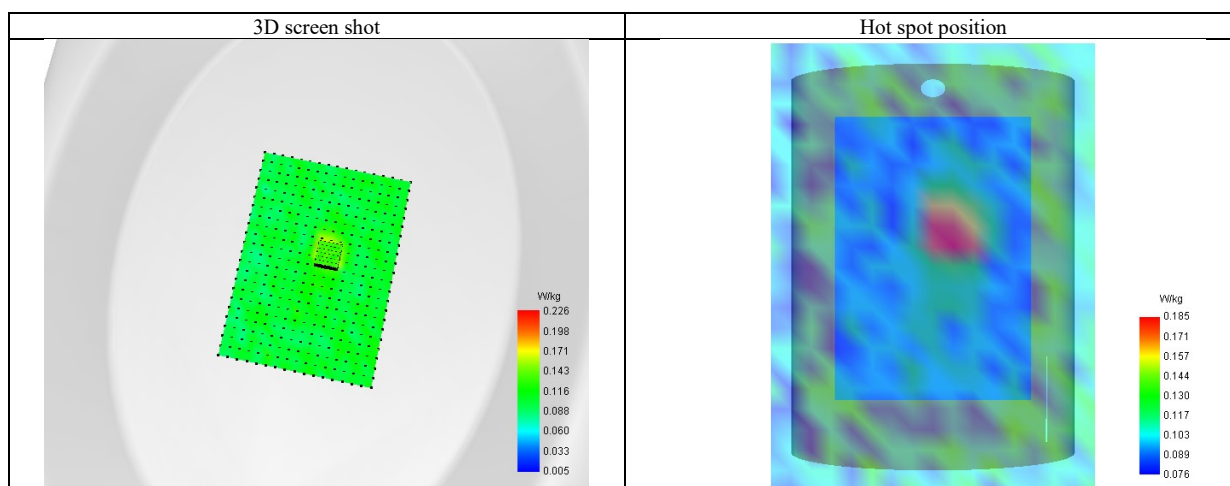
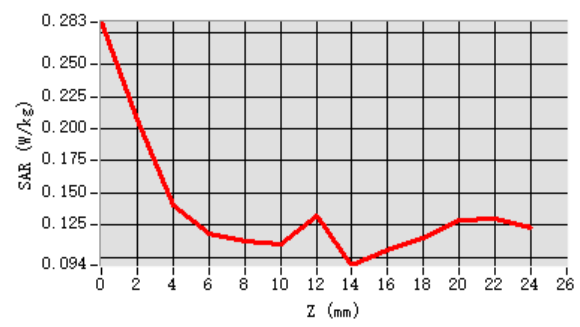


|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.114     |
| SAR 1g (W/Kg)                                         | 0.170     |
| Variation (%)                                         | -3.120    |
| Horizontal validation criteria: minimum distance (mm) | 13.628351 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 75.039516 |

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| Z (mm)     | 0.00  | 2.00  | 4.00  | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 0.283 | 0.207 | 0.140 | 0.118 | 0.112 | 0.110 | 0.132 | 0.094 | 0.106 | 0.115 | 0.129 | 0.130 |



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**5.6GHz (U-NII-2C) WIFI-802.11ax40-Chain A**  
**Test Laboratory: AGC Lab**  
**802.11ax40 CH134- Body-Worn- Back**  
**DUT: Laptop Computer; Type: NM16DA**

**Date: Dec. 06, 2025**

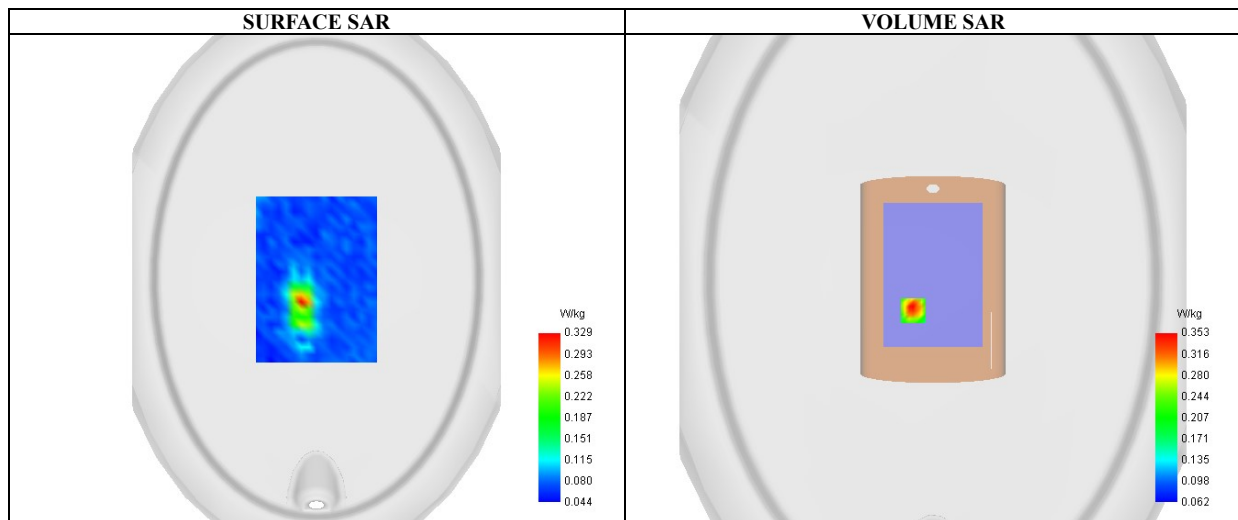
Communication System: Wi-Fi; Communication System Band: 802.11ax40; Duty Cycle: 1:1; Conv.F=1.44;  
Frequency: 5670MHz; Medium parameters used:  $f = 5600 \text{ MHz}$ ;  $\sigma = 5.16 \text{ mho/m}$ ;  $\epsilon_r = 36.91$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/802.11ax40 CH134- Body- Back /Area Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$   
**Configuration/802.11ax40 CH134- Body- Back /Zoom Scan:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| <b>Area Scan</b>       | sam_direct_droit2_surf8mm.txt                          |
| <b>ZoomScan</b>        | 7x7x12 $dx=4\text{mm}$ $dy=4\text{mm}$ $dz=2\text{mm}$ |
| <b>Phantom</b>         | ELLI                                                   |
| <b>Device Position</b> | Body- Back                                             |
| <b>Band</b>            | 5600MHz                                                |
| <b>Channels</b>        | CH134                                                  |
| <b>Signal</b>          | Crest factor: 1.0                                      |



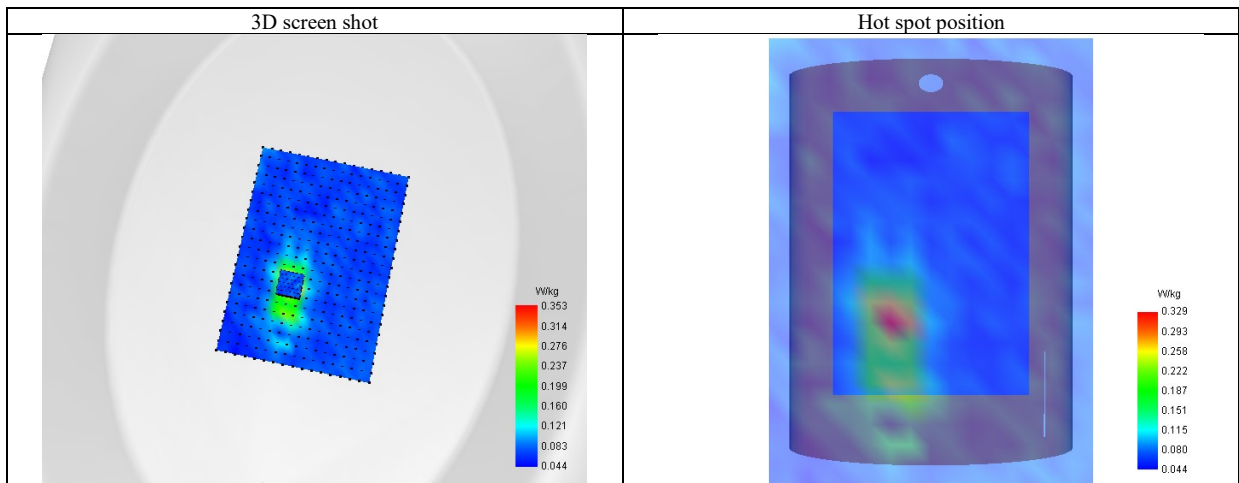
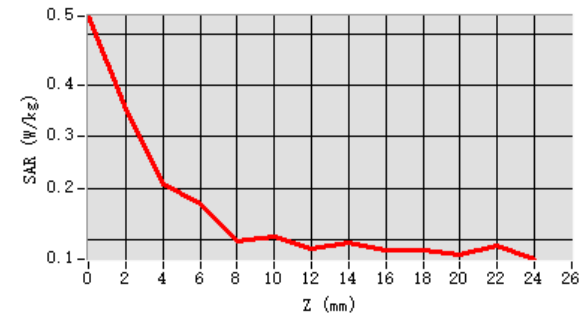
Maximum location:  $X=-19.00$ ,  $Y=-30.00$  ; SAR Peak: 0.56 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.122     |
| SAR 1g (W/Kg)                                         | 0.241     |
| Variation (%)                                         | -1.590    |
| Horizontal validation criteria: minimum distance (mm) | 14.422205 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 62.984726 |

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| Z (mm)     | 0.00  | 2.00  | 4.00  | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 0.533 | 0.353 | 0.207 | 0.169 | 0.099 | 0.106 | 0.085 | 0.096 | 0.081 | 0.082 | 0.073 | 0.089 |



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**5.6GHz (U-NII-2C) WIFI-802.11ax40-Chain B**  
**Test Laboratory: AGC Lab**  
**802.11ax40 CH110- Body-Worn- Back**  
**DUT: Laptop Computer; Type: NM16DA**

**Date: Dec. 06, 2025**

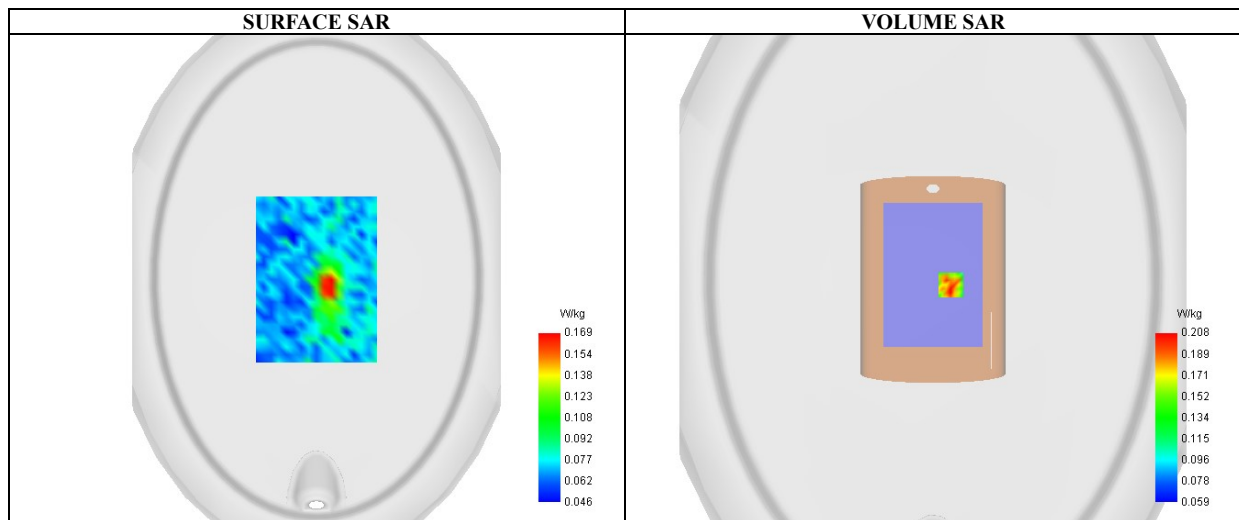
Communication System: Wi-Fi; Communication System Band: 802.11ax40; Duty Cycle: 1:1; Conv.F=1.44;  
Frequency: 5500MHz; Medium parameters used:  $f = 5600 \text{ MHz}$ ;  $\sigma = 5.12 \text{ mho/m}$ ;  $\epsilon_r = 37.19$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/802.11ax40 CH110- Body- Back /Area Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$   
**Configuration/802.11ax40 CH110- Body- Back /Zoom Scan:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| <b>Area Scan</b>       | sam_direct_droit2_surf8mm.txt                          |
| <b>ZoomScan</b>        | 7x7x12 $dx=4\text{mm}$ $dy=4\text{mm}$ $dz=2\text{mm}$ |
| <b>Phantom</b>         | ELLI                                                   |
| <b>Device Position</b> | Body- Back                                             |
| <b>Band</b>            | 5600MHz                                                |
| <b>Channels</b>        | CH110                                                  |
| <b>Signal</b>          | Crest factor: 1.0                                      |



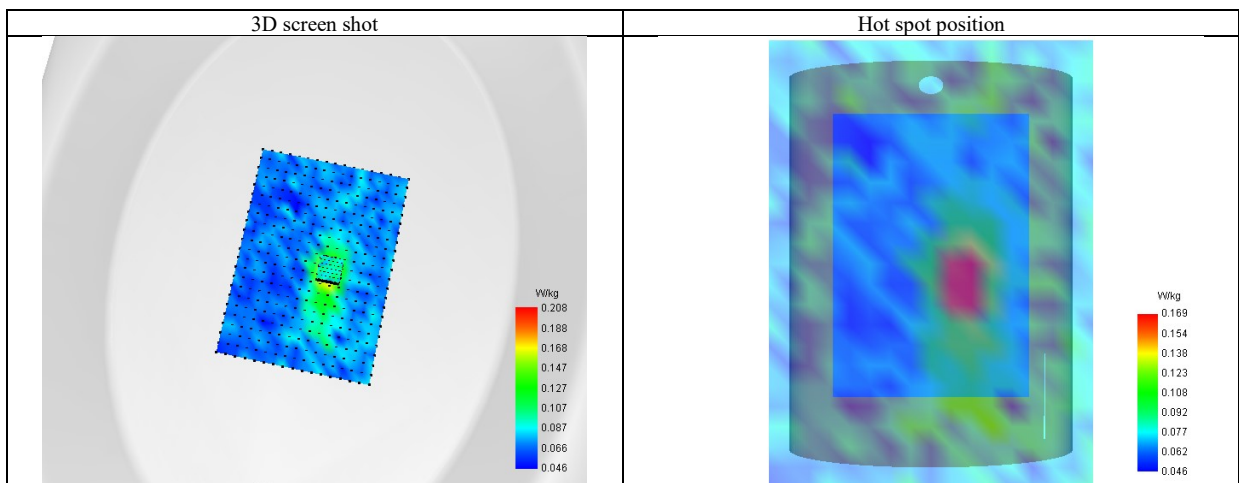
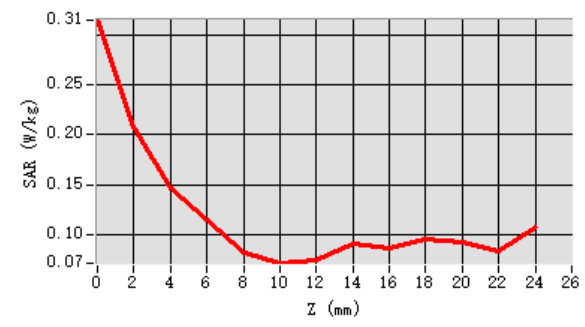
Maximum location:  $X=17.00$ ,  $Y=-5.00$  ; SAR Peak: 0.40 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.067     |
| SAR 1g (W/Kg)                                         | 0.135     |
| Variation (%)                                         | -1.420    |
| Horizontal validation criteria: minimum distance (mm) | 13.614379 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 61.781374 |

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| Z (mm)     | 0.00  | 2.00  | 4.00  | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 | 22.00 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SAR (W/Kg) | 0.314 | 0.208 | 0.146 | 0.115 | 0.082 | 0.072 | 0.075 | 0.091 | 0.086 | 0.096 | 0.092 | 0.084 |



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**5.8GHz (U-NII-3) WIFI-802.11a-Chain A**  
**Test Laboratory: AGC Lab**  
**802.11a CH157- Body-Worn- Back**  
**DUT: Laptop Computer; Type: NM16DA**

**Date: Dec. 08, 2025**

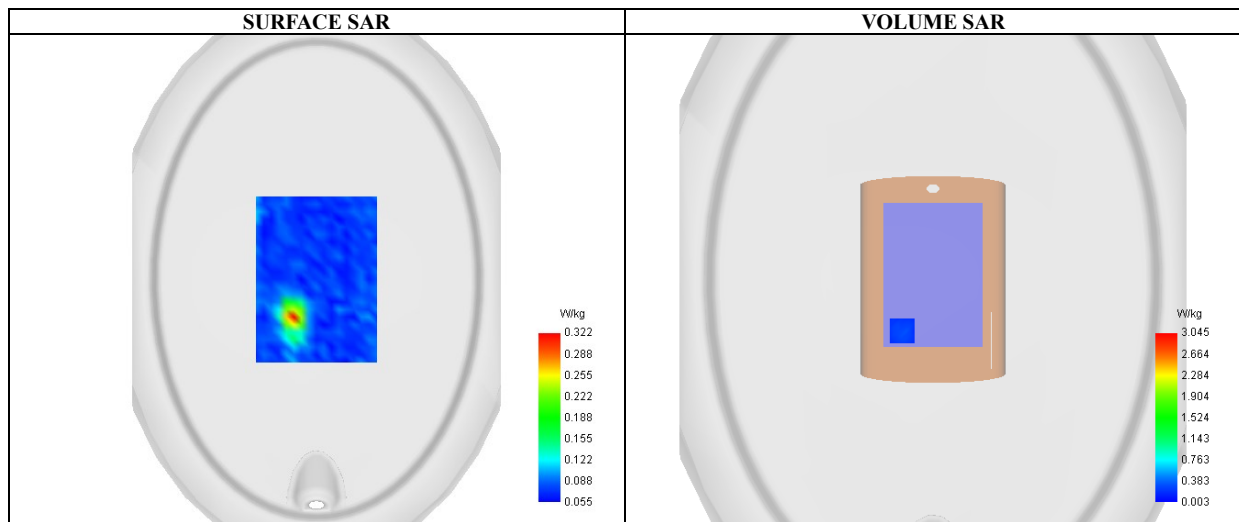
Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.41;  
Frequency: 5785MHz; Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 5.33 \text{ mho/m}$ ;  $\epsilon_r = 36.42$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/ 802.11a CH157- Body- Back /Area Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$   
**Configuration/ 802.11a CH157- Body- Back /Zoom Scan:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| <b>Area Scan</b>       | sam_direct_droit2_surf8mm.txt                          |
| <b>ZoomScan</b>        | 7x7x12 $dx=4\text{mm}$ $dy=4\text{mm}$ $dz=2\text{mm}$ |
| <b>Phantom</b>         | ELLI                                                   |
| <b>Device Position</b> | Body- Back                                             |
| <b>Band</b>            | 5800MHz                                                |
| <b>Channels</b>        | CH157                                                  |
| <b>Signal</b>          | Crest factor: 1.0                                      |



Maximum location:  $X=-30.00$ ,  $Y=-50.00$  ; SAR Peak: 2.56 W/kg

|                                                       |           |
|-------------------------------------------------------|-----------|
| SAR 10g (W/Kg)                                        | 0.101     |
| SAR 1g (W/Kg)                                         | 0.231     |
| Variation (%)                                         | -2.070    |
| Horizontal validation criteria: minimum distance (mm) | 14.422205 |
| Vertical validation criteria: SAR ratio M2/M1 (%)     | 59.824390 |

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